Record

2001 1945 -

Collection number brok of 7. R. Fosberg

Mr. 24725 -24941

Description por Liter The

	Pages
Truk Islands: Moen I., near Mt. Tonaschau, Old village of Mechetiu, new location of	
called Sabuk 24410-24428	54-59 58-61
- Tol Island, Mt. Uiniboet, Fason Village 24440-24476a	62-69
- Udot, Folomo, Manitu village, old mission carden, Monua (Malua) village 24476-24502	68+77
- Tefan Island, between Mt. Chukuson and Mt. Chakuchap, Mesa village 24503-24522 - Dublon, sloves of Mt. Tolowan 24523-24556	76+81 82 - 89
Hell Islands: Nomwin Atoll, Nomwin I. 24557-24608 Truk Islands, General Moen I. Pis I., n. side of Truk Bai 24614-24690 Moen I., saddle bet Mt. Teroken and Mt.	92-107 108-115 116-117 118-133
Tonaschau	132-134
MARIANA ISLANDS Tinian, Mt. Lasso, "Palm Beach", Lake Hagoya, south end of Tinian I., plateau 1 mi. n. of	
Tinian, Camp Churo, near Marpo Wells 24711-24738	142-151
Marpo Wells, Mt. Lasso, near Lake Hagoya 24739-24808 24739-24808 24739-24809	150-163 164-173
Yellow Beach, North Air Field, Camp Churo 24850-24941	172-200

Collection and Field Note Book

No. 14

Nov. 25, 1945 - June 9, 1946 (Nos. 24225 - 24941)

	Pages
VIRGINIA	
Fairfax Co., Lee Boulevard north of Fairfax	2-3
Along Turkeycock Run, n. of Fairland 24232-24236 24237 24237 Arlington, Potomac River 24238-24239 Fairfax Co., Sleepy Hollow 24240-24249	2-5 4-5 4-9
ILLINOIS	
Bond Co., Mulberry Grove 24250-24260	8-11
PENNSYLVANIA	
E. of Washington 24261 (with G. Van Schank)	10-11
VIRGINIA, Sleepy Hollow 24262	10-11
CALIFORNIA	
Stanislaus Co., 2 mi. n. of Turlock 24263-24272	12-13
HAWAIIAN ISLANDS	
Oahu, trip by car,	14-15
summit ridge, Kahana side, Waikane Valley	16-19
MARSHALL ISLANDS	
Eniwetok Atoll, Eniwetok I., Igurin Islet, Japtan Islet 24285-24344 Aomon Islet, Eniwetok I. 24345-24372 Enge Islet 24373-24409	20-35 34-43 44-53

	Pages
CAROLINE ISLANDS	
Truk Islands: Moen I., near Mt. Tonaschau, Old village of Mechetiu, new location of	
Mechetiu, saddle bet. island and peninsula called Sabuk 24410-24428	54-59 58-61
- Tol Island, Mt. Uiniboet, Fason village	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
- Udot, Folomo, Manitu village, old mission	62-69
garden, Monua (Malua) village 24476-24502 - Tefan Island, between Mt. Chukuson and	68-77
Mt. Chakuchap, Mesa village 24503-24522 - Dublon, slopes of Mt. Tolowan 24523-24556	76 - 81 82 - 89
Hall Islands: Nomwin Atoll, Nomwin I 24557-24608	92-107
Truk Islands, General 24609-24613	108-115
- Pis I., n. side of Truk Bai 24614-24690	118-133
- Moen I., saddle bet Mt. Teroken and Mt.	170 171
Flats near Baker Dock, Moen I. 24692-24710	132-134
MARIANA ISLANDS	
Tinian, Mt. Lasso, "Palm Beach", Lake Hagoya, south end of Tinian I., plateau 1 mi. n. of Tinian, Camp Churo, near Marpo Wells	
- s. end od Masalog Ridge, Tiniun City, near	142-151
Marpo Wells, Mt. Lasso, near Lake Hagoya	150-163
- Marpo Valley, near Marpo Wells 24809-24849 - w. side of Island "Palm Beach", Mt. Lasso,	164-173
Yellow Beahh, North Air Field, Camp Churo	
24850-24941	172-200

Collection and Field Note Book

No. 14

Nov. 25, 1945 - June 9, 1946

(Nos. 24225 - 24941)

	PARSE
VIRGINIA	
Fairfax Co., Lee Boulevard north of Fairfax	
Along Turkeycock Run, n. of Fairland	2-3
24232-24236	2-5
Washington, D.C 24237	4-5
Arlington, Potomac River 24238-24239	4-5
Fairfax Co., Sleepy Hollow 24240-24249	4-9
ILLINOIS	
Bond Co., Mulberry Grove 24250-24260	8-11
PENNSYLVANIA	
I. of Washington 24261	
(with G. Van Schank)	10-11
VIRGINIA, Sleepy Hollow 24262	10-11
CALIFORNIA	
Stanislans Co., 2 mi, n. of Turlock	
24263-24272	12-13
HAWAIIAN ISLANDS	
Oabu, trip by car,	14-15
Waikane-Schofield Trail, Schofield alde,	
summit ridge, Kahana side, Waikane Valley	0.00
	16-19
MARSHALL ISLANDS	
Eniwetok Atoll, Eniwetok I., Igurin Islet,	
Japton Idlet 24285-24344	20-35
Aomon Islet, Enivetok I. 24345-24372 Enge Islet 24373-24409	34-43
MINE ACTED FERRESCONDER CTT/ DECTACL	44 14 me 13 3

Collection and Field Note Book

No. 14

Nov. 25, 1945 - June 9, 1946

(Nos. 24225 - 24941)

	LUKEB
VIRGINIA	+ MACD
Fairfax Co., Lee Boulevard north of Fairfax	
Along Turkeycock Run, n. of Fairland	2-3
Washington, D.C. 24232-24236	2-9
Arlington, Fotomac River . 24238-24239 Fairfax Co., Sleepy Hollow 24240-24249	4-5 4-5 4-9
ILLINOIS	
Bond Co., Mulberry Grove 24250-24260	8-11
FINNSYLVANIA	
E. of Washington 24261	
(with G. Van Schank)	10-11
VIRGINIA, Sleepy Hollow 24262	10-11
CALIFORNIA	
Stanialaus Co., 2 ml. n. of Turlook 24263-24272	12-13
HAVAIIAN ISLANDS	
Cahu, trip by car,	14-15
Waikane-Schofield Trail, Schofield side, summit ridge, Kahana side, Waikane Valley	
24273-24284	16-19
MARSHALL ISLANDS	
Eniwetak Atoll, Eniwetak I., Igurin Islet,	
Anmon Islet, Eniwetok I. 24345-24372	20-35
Enge Islet 24373-24409	34-43 44-53

1 Berezisman 2 Eljos - -- - The am. 3 galeplet the all your and younther 4 Bell Sporner Mounda JUEn (America che mody) 6 Kons Cordia) 7 Kiron mis will steptum. 8 Wyoz autok Thursday 911 marono

Loryn kuldule and the same 11 motos 1) - b-c-12 Kenze Karana Francis 17 Koron Kee Landing 14 Tus -line 15 Amar henat per management 13 Enototo astok 9.11.2 17 -sent 18 glamen Corrythin 19 setal

Office Memorandum · United States Government

0 In. John & Marriedon

DATE:

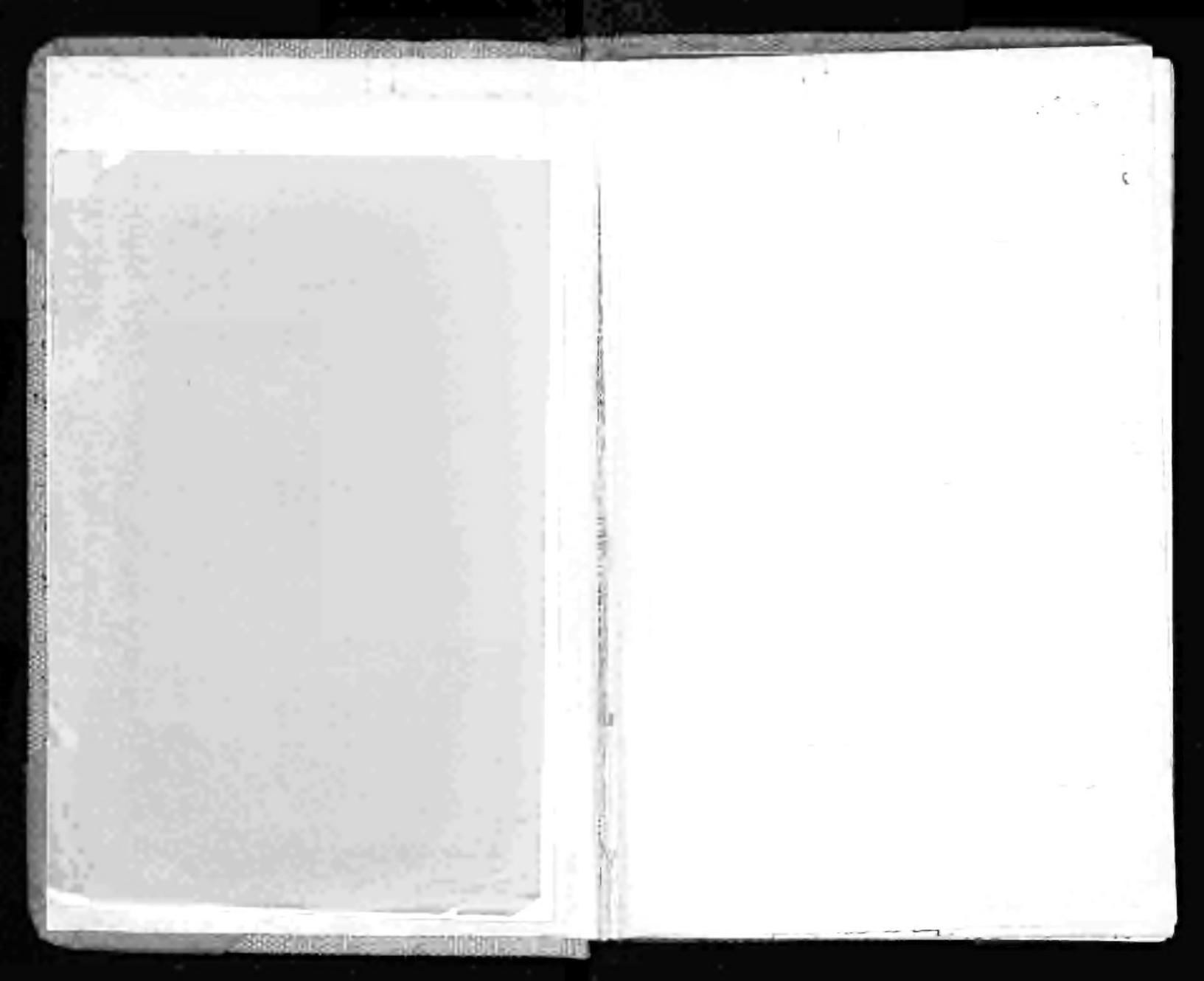
OPER PER AND

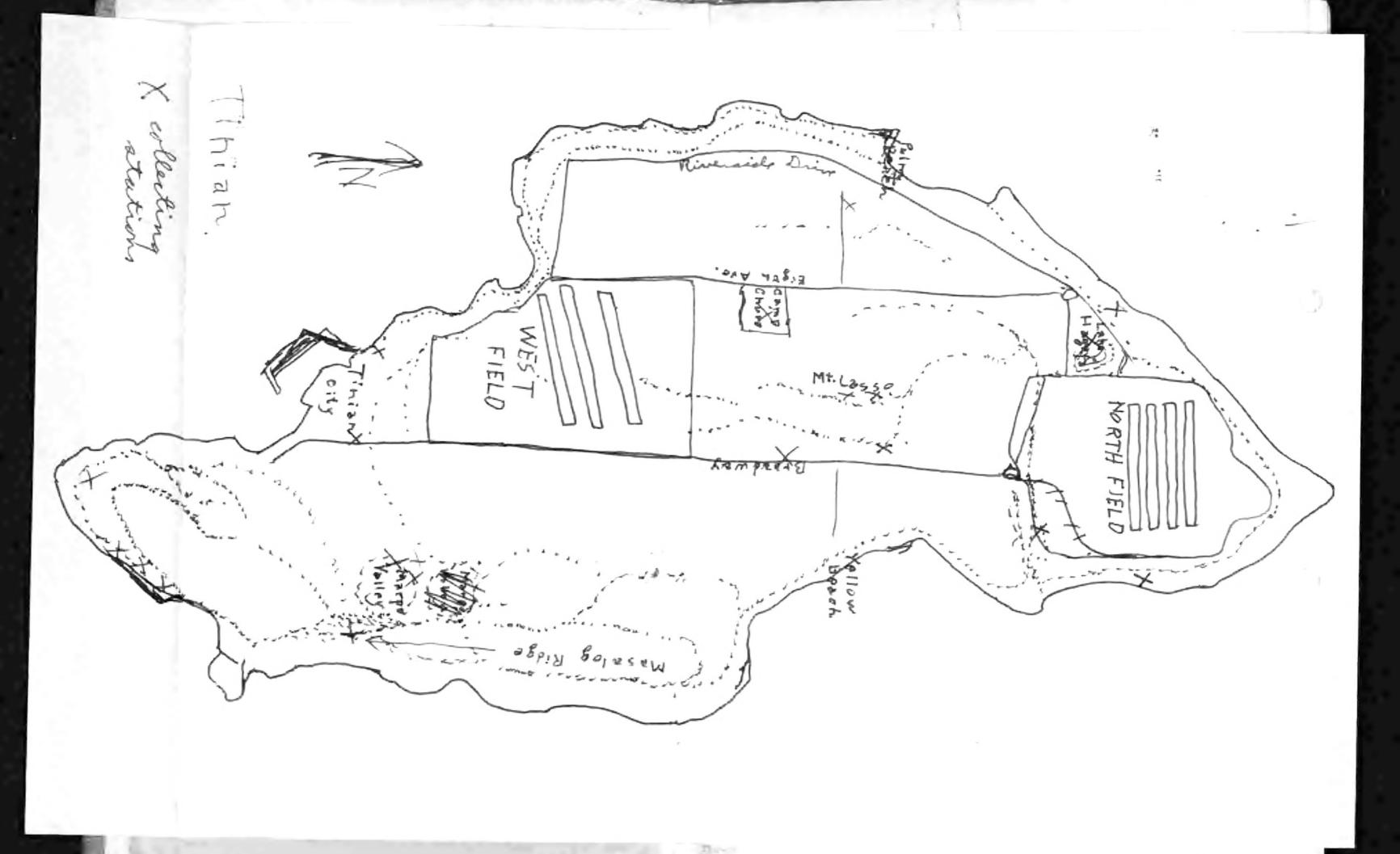
SPERMENT NO. 1. S. WORK

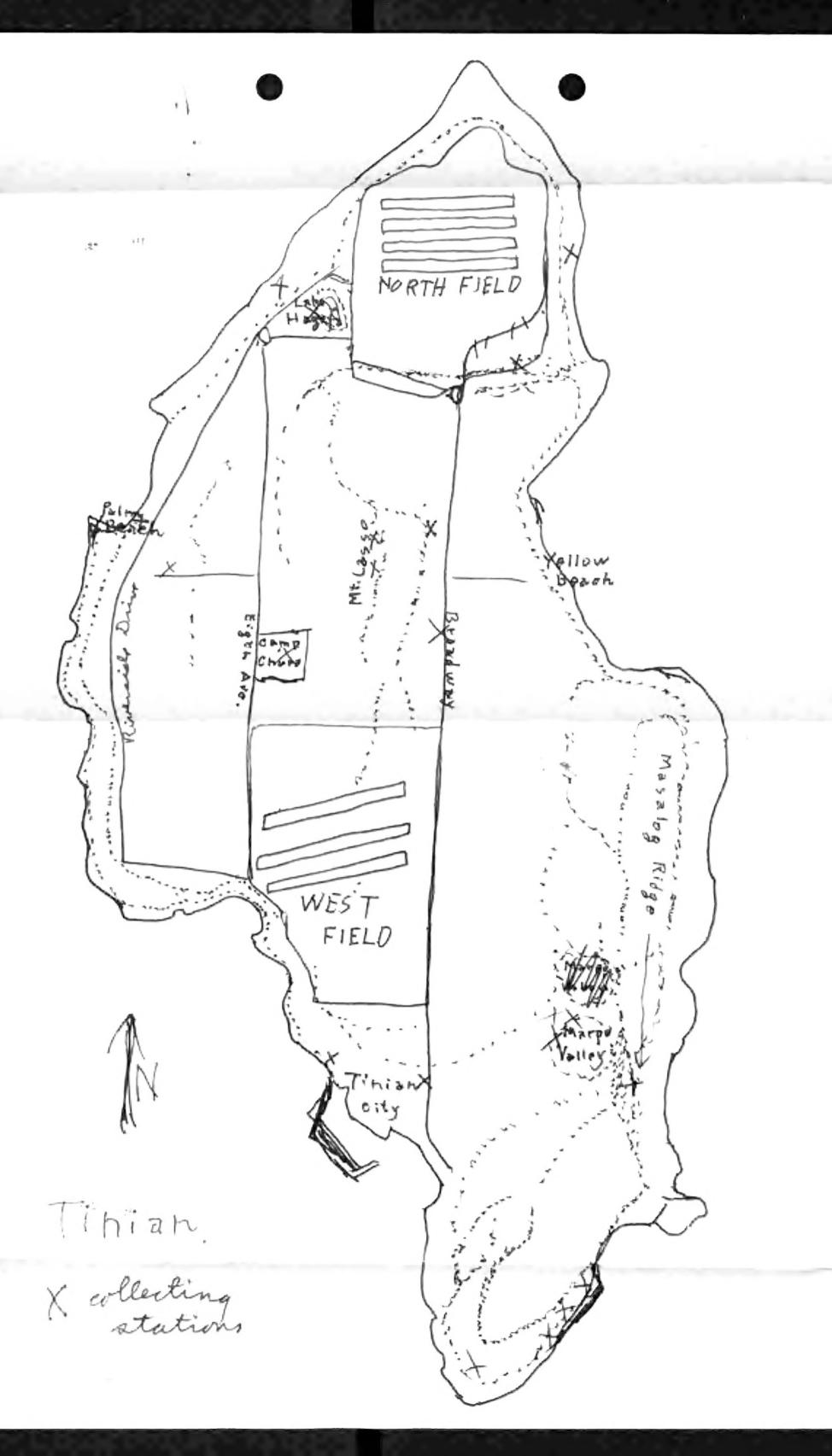
SURJECT: USALLocation of Management Project

The Control of the co

St. 32 "Share"







200 1945 -

Collection number book

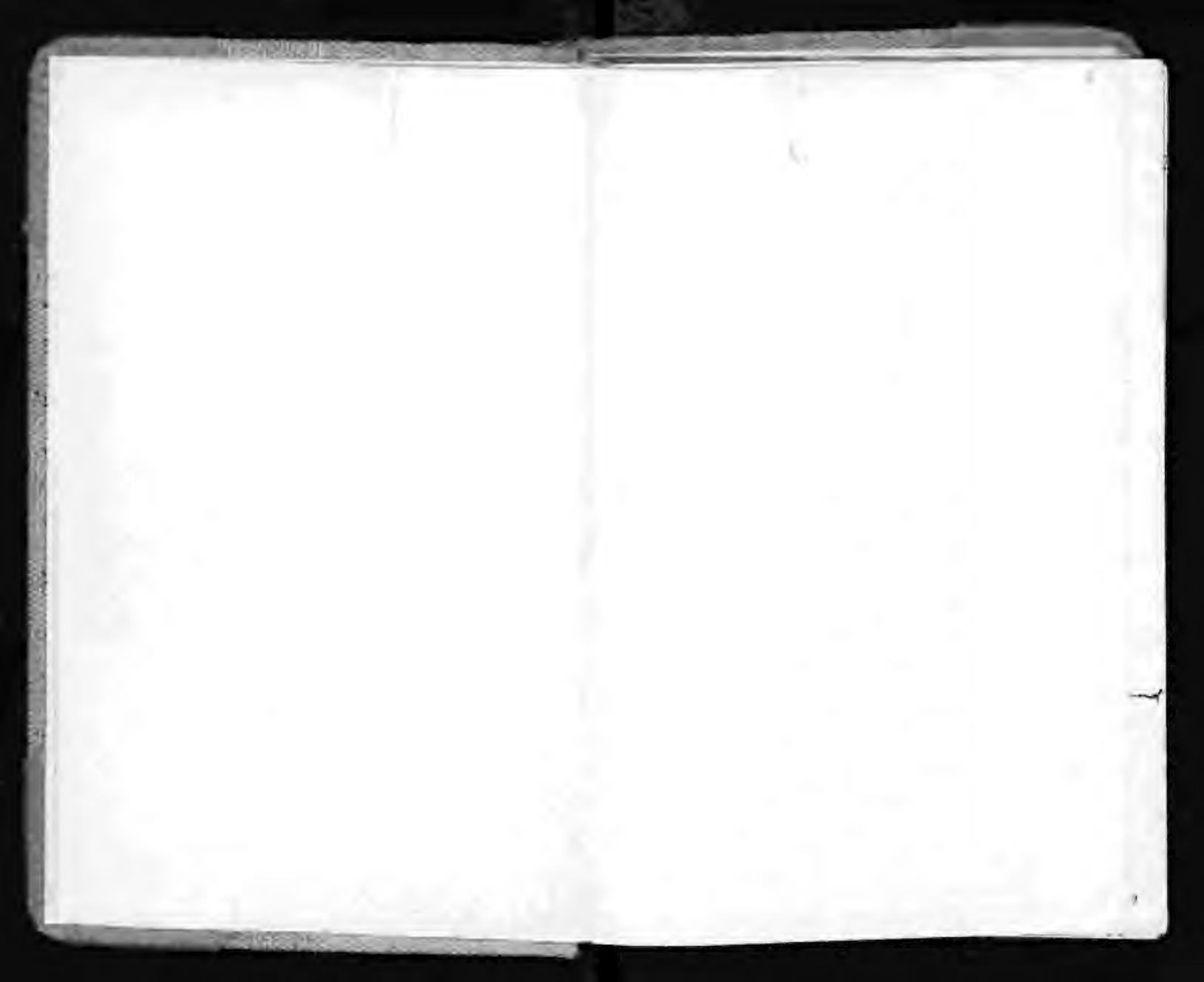
of 7 R Fosterg

No. 24225 - 24941

Lawrence Harry

5 3 1

4



Fairfax Co.

prostrate, vale green

tree 20 m. tell, 12 dm. Thick

prostrate, extensively
creeping, sterile.

whizeme erect, fronds
prostrate or ascending.

erect from prostrate
underground shizome, leaves
dark green, central portion
whitish

erect from prostrate underground
shizome, leaves dark green,
glissy.

prostrate, dull, dark
green, berries searles.

oozine relater.

1945 - Verginia - D.C. Fairfrax Co. 24232 Lyrofsodium obscurum common locally, large patcher erect from prostrate spile stran esland Lyroprdium lucidulum erect, dans green 34 alnus semulata Willd. showb 3 m Talf common 35 Klus vernin small tree 4 m. tall ammen It Magnolia virginiana common, characteristic a few leaves greating, white beneath. Tree of this type of bog. Nov. 26 - Washington, D.C. Pol edge of lawn along sidewalk flo. fines. 37 Polygonum Dec. 8, 1945. Bird Sanctuary Potomac River, arlington thicket at edge of sldugh - small sapling small tree 4 m. tall, 4 cm. thick, barls amouth, expoliating. 38 aclanthus altissima 39 Platanus occidentalis - Dec. 9, 1949 - fleepy Hollow, 1 mi. 4. of Falls Church, Jairfase Co. thickly wooded bottom-land, low second - growth woods. 40 amelanchie small shrubby tree, 3 m. tall. 41 acer rubrum amalltree, 4 m. tall 41 Figurdamba styraciflua small tree 6 m. tall branches green

tree 5 m. Tall, 12 con. Thick,

surrounded by bushy

a clone, of safelings of various ages, 1-5 or a year fasciated, but only toward the end of each season's growth, the fracciations of various forms

safeling 3 m. tall, freely branched.

much branched small tree 4 m. tall, back gray, spines shing dark brown, bude reddish.

black feaint-like patcher on back, black markings in word.

House July 1946 - Vinginia - Illinois

House March 17 - fleepy Hollow 1/2 mi.

24441 Goodge a poulousem

10 wooded stopp, deciduous trees

Mar. 31 - Mulberry grove, (4 mi. w. of Vandalia), Bond Co. 9ll. Open was cut, brushy ravine and edge of woods 3 v so Engthronium album road cut

2152 Dicentra
edge of woods

152 Edget woods

153 Staphyles tripoliates
edge of woods

154 rooded ravine
2155 Claytonia
woods and wooded ravin,

57 Dentana wooded ravine, occasional 57 anemonella wooded ravine, common 4,58 Phlox divarieata woods, rare on flattish, ground and in ravine Ceaves glancous- green, voniegated

bulb very deeply buney, leaves variable in width blue - green with variable purple marking, bude shell-frinks, blowers leaves glaveous, com - pines, flowers white. flowers white. bush, flowers white flowers white earn somewhat plattened, stem decembent at base, leaves - amendat fleshy, blowers white with prints veins. whizens moriliform with large segments, fls. white. flower quite pink stoloniferous, flowers purple,

10 1946 - Illinois - Penna. - Va.

14259 antennain plantaginifolia

common on roadside Englis

100 Cercis canadensis

recasional in roads

4 Westapril 2 1946 - 3 mi. e. of

Washington

U congolalis Flavula

april 14 - bleepy tollow, mi.

s. of Falls Church, Fringan Co.

Wooded bottom land, well

established

black ground, prossebly

burned some time back,

under wadside trees, rave.

Thrul, calyx red,

flowers yellow

fls. cream, bronzed without.

12 1946 - Singing Calif.

Marth 17 A Algeld Hallow I'm ming talleller the flood of talleller the fairfaile.

april 20 - Turlock, Itanislam 6.

cultivated ground around devellings, watered, randy boam common weed, sun a shade common weed, sun a shade common weed, sun a shade

65 acacia verticillata villa.

cultivated

cultivated, around drain

67 Hedera helix to

escaped from cultivation,

established.

49 Vinea major escaped from cultivation escaped from cultivation, common.

To Oscalis excaped from cultivation, amount

71 Oxalis cerninga escaped from cultivation, 72 amsinchia abundant in field petals glabrous, pinkish,
emarginate, little if any
longer than calyxstraggly pringent shoul
3 m. tall, pls. yellow.

- many wordy rine, leaves
dimorphic.

vine, flowers blue-violet

coms thick, tuberous, multiplying by offsets. flowers

linglet prints with prinche

lines toward center.

cerms thick, tuberous, multi
plying by offseths. flowers

white. Probably a sport

grow Dryvog.

stoloniferous, small plante

from bulbo, flowers bright

butter yellow.

flowers orange.

April 27 - Driving around Lanikai, Kailua, up over Munamu Pall, down humann Valley around Honolulu notes on distribution of introduced plants

sambucus sp. - rare in 1937.

only noted in ofren air theater

at University, now

fairly common in cultivation

around Honolulu.

asystasia gangetica - noted in 1937 as established near university campus in a vacant lot - now one of the common weeds in lanikai, Kailua and Honolulu, not up very high on Kailua - Honolulu road. Both purple and white forms noted, but fourple much more common.

Paederia poetida - common along municipal valley.

common along numanu fali wad.

Established in Kailna.

Verbesing encelividesin the thirties only seen
near motsuleig and
Pearl Harbon now
one of the common weeks
in Kailna and many
parts of Honorulu.

Spathoglottis plicata
in evident now everywhen
where there is any amount
of rain. Pali rd. Wailsane,
manoa, etc. common.

messersehmidia angentea common around Pearl Hardn, planted by navy (Don anderson). 1ti 1946 - Oahu

april 27 - Wailrane - Lehofield Trail, Schofield side,

24274 gouldia

75 gouldia

76 Goveldig terminalize influence of typica) Opr. 23 - same summent ridge

brushy windswelft crest 2600-2800'
77 gouldia terminalis var. criaces
be side of

78 gouldia st. johnii 1 st contaminated windward side of

19 goveldig st-johnie windward side of

30 govedia

tree is m. tall, flowers white,

- fragrant (note small sepals)

- mass coll. I twing from a

tree, flowering where

- frontible (with # 74275-6.)

small shubby tree

- (buds fixed)

same (buds fixed)

small tree, leaves nother dull (buda fixed)
flowers green
bush 1.5 m tall, flo, green.
(buds fixed)
bush 1.5 m tall, flo, green
fruit immature, bruiting
calrye lobes fleshy,
divergent (bluda fixed).
mans coll. I twing from
each of trees within

afri. 26 Waelaans - Rebrofield Wall, Kahana side wet brushy freed on steep olope 2000'- 2400' 24281 Hedystis glorner at 4

32 gouldin

83 Hedydin glornerston glorners.

Valley. Waikane

34 Fiers planted along trail

suffratescent herb
with leathery leaves
buds purple (buds fixed)
mass coll. I twig from
each tree within reach
of trail
suffratescent herb 1.5 m
tall, fls purple without,
green within.

fruiting abundantly, and lower frait frank, thereof, and on larger limbs.

may 13 - Enivertale atall

Parry I. & Eniwetols I. have been denuded almost completely

and muis. seem still fairly well covered with vegetation.

May 13 - Eniwetak atall, sand dunes bacing inner beach 24235) pomola alla seaward slope of dune.

to Engelineria atoto(?) chaminomo

lower slope of dune, sare 87 Apomola pet-capal very local.

88 Cassyttha filiformis parasitie on Ipomoea pez-capiae,

same - sand flats around buildings 89 Eleusine indice common locally 90. Eragrostis amabilis common locally

On Enwetole zea mays, Lolanum Cycofiersicos and I fromoea frufuce were seen in a garden, Tomato is said to do well.

prostrate, densely carpeting slope of dune, flowers white, closed in afternoon. leaves fleshy, veins Consprenously impressed above + below. leaves fleshy, white beneath. prostrate, leaves somewhat thick, sterile except our one old fruit. leaflets parasite, stems green.

loose clumps, taller where sheltered. depressed bunches,

24391 Scarvola frutescens (mill) Kr. common breatly ver entire island (commonest shrub on island)

92 Cynodon daetylon common locally, 99 Messerschmidig argentea

99 quettanda specina nae (possibly planted)

95 Tharanea involute

96 Portulação oberacea L.

97 Portulaca guadrifida very common

98 Lepturus repens var. subulatua Ford.

99 Triumfetta procumbens

24300 Cenchrus echinates occasional OI Fimbristylus cymosa common coolly white within,
thickend parts grain
without, fruits while, fleshy.
forming tense matz, scales
erect.

shrub 1.5 m. talf, leaves
silvery green, feesly,
flowers white.

prostrate, forming - Then dose mater sand. prostrate, fleshy, plich. prostrate, dense, fleshy, purplish, leaves thick but compressed, amonged in flattened masses, flowers yellow, about 15-20 mm. across, about 15. northehickened. forming brunches but with runners forming - mate. for prostrate, stems several m. Long, tranched, forming mals; flowers yellow! leaves fleshy. boose imall tufts

tufts, leaves rather slift.

may 14 - Igurin Islet, Eniwetoly atolf flat sand mused with coral fragments, seight swall in center but This has been destroyed by naval installation

(no makatea notices) (no Pandanus seen) (one cerbera seen, not collected. ensterile grass seen, not coll.)

24302 Morinda citrifolia not common, but several small patches noticed 03 Cordia subcordata only one small patch seen in rather low brush Toward east end of island 04 Pisonia grandis common in worded central part of roland, this plant on inner beach.

05 Ipomoca alba occasional on inner margin of mosays

or Boerhawing diffusa sandy places, in open shaded vegetation is basically atall brush of scarvola with quettarda quite common, and Pisonia common in main part of island but dropping out toward the ends! messerschmidig is common on the outer and inner edger, but scarce inland, Luriany only on west end, not coming Coconuts planted, especially at center small tree 4 m. tall, leaves somewhat glossy above, flowers white completely sterile.

wind-beaten tree 5 m. tall, tragrant, persett green whitish. vines mostly dried up at this season. Leaves of old plant flashy. (the better different plant, just starting - this seasons growth. veryprostrate, forming large thin mate stems + fretistes red, leaves whitish beneath, pls. prints.

1946 marshall Is.

Pertulaca lutea several small patches near inner beach, in

rather ofen places 08 Pisonia grandis common on main part

of roland. of Canavalia cathada Thomas occasional on inner side,

10 suriana maritima occasional, but only in open places on extreme west end of islet

11 Triumfetta procumbens common but very locally, mostly on open sand.

12 quettarda speciosa very common throughout regelation

13 Casaytha filiformis occasional, this one

francistic on quettarda) 14 heavy la frutercens (milf. 16. the dominant plant in the regetation, forming in most places a dense brush.

15 Messerschmidia argentea common, especially along " outer edges of vegetation

stems ascending, gray-brown. Thirty. whole whole seen) should am talf, pristillate, very few seen with fruit.

vine climbing over trees, fruiting was dead, living ones sterile. bush in tall, flowers

butter - yellow. Canly This one bush seen flowering, Then all past fruiting). prostrate, leaves flashy, flowers yellow.

shrub 1.5 m. all Cothers several times as tall), flowers white, very fragrand, fruits apparently not quite mature. leafless parasite, stems yellow-green.

shout 5 m. tall (commonly this tall except toward ends of islet) flowers white leven on thick in sinuser & tree 5 m. tall, Cothera even taller), leaves silvery green, bleshy, flowers white, fragrant

24316 Coeos mueifera L. commonly planted almost throughout islet.

a single tree of mangifera indus and one of artocarpur altilis reported on good authority not seen by me. may 15 - Japtan I slet, Everdetols atoll flat coral sand toward inner beach, seconing more and more welry Toward outer beach and along passage. Vegetation basically a brushylat beaevala! Pisonia, quettarda, Cerbera, with some movinda citrifolis, scattered foundances, the inner partin plantey The Pisonia is mostly. rather small, but with some larger trees, These almost leafless - possibly Decause of the dry season.

tree 10 m. tall, leaves several m. long; panieles enclosed in a wordy spathe before anthesis, at antheris both & sexus of flowers and panicles Livory - white, resembling carved ivery & specimene represent only small fragments of paniels , leaf. The number of hustra or ground indicate that · copra was produced here before the war.

Vising is in flower and so abundantly so that the air is perfumed. This vegetation is very disturbed, both bulldozer activity and with a maye of wads. The frest becomes much lower and more scrubby toward the onlen beach, as the ground gets nochier and nothier. nowhere is there the observed on Igurin. The Pandanus is not especially variable, except in leaf length.

Pandanus tectorius Park. occasional especially toward inner beach.

13 quellarda speciosa L common throughout island

11 Kimema americana L very rare, a plants seen on subble toward outer beach

20 Eleusine indica around village

H Fleurya mideralis gand. occasional

12 Triumfetta procumbens - common

23 Portulaca quadrigida L.

openings, common

24 Cenchnur echinatacing 25 Lepturus repens (Fout!) an lagron beach.

26 Vortulaca lutea for. common in open blaces

27 fetaria verticillata rare, one clump seen in bottom of depression encavation

tree 8 m. tall, sparsely branched, fruit green distally, the fleshy part yellow, sweet, with peculiar ether - like glaver, not at all initating, - earlen by natives. shrub 2 m. tall, fruit green, fls. white.

rigid bush with weak spines, leaves yellow-green, -fls. yellow, fruit immature small tufte

stems red, bleshy, leaves glossy, low rounded bushy berle. prostrate, not system very extensive, as long as branches; sterile! prostrate, not enlarged, plant flerly, fils. yellow. densectumy.

dense clump of erect culms with sunners spreading, stems fleshy, leaves fleshy, plowers yellow 1.5 cm. across, stamens _many (over 25). dense clump.

29 to the bushy regetation on worky ground

30 Cassytha filiformis parasitic on quettarda, the host completely covered and almost dead.

31 Terminalia catalogra sa mining al

32 Piania grandis very common, codominant to dominant in vegetation.

33 Tacca leventopholisides
nave, one clump seen se
in worky soil in opening.

34 Boerhavia despusa

35 Morinda citripolia

36 heavola frutercens abundant, co-dominant in regelation

37 Pisonia grandis very common, co-dominant

38 Cordia subcordata
race, one-tree seen on inner Beach

small bunches.

small tree 5.5 m. tall, buds white, fruits on ground beneath, leafless parasite, stems yellowish green, flowers white.

tree 4 m. talf, densely branched, fruit immature.

leaver just unfolding,
tubers about \$5-8 cm!

below surface of soil.

prostrate, stems red,
small tree 3-4 mi, tall, leaver
quist translucent, white
fruit translucent, when
decomposing with a powerful strong order.

- shrub 15 m. tall (others
much taller), flowers
and fruit white
shrub 3 m. tall, flowers
quen with whitesh margine
- fruit immature.

- fruit immature.

- tree 10 m. tall; flowers

delicate, brilliant orange,

fruit green

seems to be of uniform age.
Here and there it is mixed with Morinda and quettarda with occasional Messerschmidig The latter forms a conspicouter and channel beacher. fust inside this Condia is rather common. In Boerhavias are common, the more

so toward the outer, the other Taward The inner beach, but both present both places, not noticeably intergradin Coconut "waeni" and Pandanus "Boy" not collected. Informante thief Joseph. and chief Drown Smith.

1944 marshall Is. 34 24339 Messerschmidia argentea common, especially along beaches 40 Digitaria provisos one as the fairly common in ofpen places and under Evenut. 41 Toolean Thomasea involved occasional in sandy places toward inner beach

abundant, climbing over everything 4) timbriptylis crymosa common in open randy becases 44 Tragrostis amabilis common, especially in other

sandy places.

42 Spornsea alba

May 16 - aomon Islet, Eniwetak atall. flat, very broad from lagon to outer beach. mostly sandy plate, changing to broken coral roch as outer beach is approached. Practically entire islet planted to coconuts. The inner part clears beneath, with a grass covering of mixed deptures repen and Eragnortis amabilis. Nearer the outer beach a brush of Leaevola and Pisonia occupies the space beneath the trees. I him seems to be occasionally cleared

tufts spilser already "berejisman

coat on stones.

"injos" (perhala se semply "meaning "grass")

"tralebelek"

ving climbing over brushes. "beld"

bush 3 m. tall, flowers white, upe fruit while, looking like a potato "nen stenly-shrubs 2-3 m. tall. "hono"

tree 7 m. tall, blower white, leaves fleshy, is silvery green "kirin".

Tufts, spreading by runners. "ujos aitok".

very prostrate, forming thin mate; sterile. "myos maroro".

rare, on wolfy ground near outer beach so Brenhavia Massatra diffusa common on welry ground near near outer beach.

57 Pisonia grandis cordorninant with fearvola in basic vegetation of island.

58 Portulaca lutea common, especially in ofpen places.

59 fida fallax common in openings, especially toward outer beach.

disease on Lida fallax

61 Scaevola frutercens co. dominant with Pisonia grandis in basic vegetation of island

prostrate roaling at nodes, "ujos brulbuli" is ascending prostrate, stems red. leaves pringle beneath, thin, flowers prints. (found with # and not especially intergrading with it) "matok" (not seen fruiting) (not seen affected by alongo) shrule 3-4 m! Tall, stems brittle (others seen much larger) "kañae" (pronounced kangae) stems reclining to ascending, whole Telant fleshy, flowers not seen (11:30 a m.). biran. flowers crange with red patches just above claws of petals, malsing a red-centered flower "kis" (allacked by powdery milden 4340 plants more a less unhealthy looking, practically sterile, when - breavely infected. bush im. tall (others to 3 m. a more), flowers white, sinuses tending to be purple marked mai kinat"

2 24362 Boerhavia diffusa common, especially inland (but growing will# 24356 and not especially interpreting with it

63 albrigo boehavia on Brechevia diffun, but only in the fleshy-leafed form of it (var. tetrandra?)
64 quettarda specio ag common throughout island.

65 Cassytha filiforming parasitic especially on grassi (Leptums repens, etc.) but on other plants also, nery abundant.

common throughout island especially in open places.

May 17 - Eniwetok I. Eniwetok atoll sandy plats around buildings. 17 Euphorbia hirta

rase one plant seen

68 Vernonig cinera local

69 Digitaria prumon son miceralis

prostrate, stems green to reddish, leaves subfleshy, white beneath, flowers pinh (larger than in # 24356) "matok airoh" (commonly attached by albugs "24363) producing a conspicuous alteration in growth babit)

strub 2 m. tall, flowers white, rips fruit white, flashy, subglobose.

forming great patcher on grant, stems yellowgreat flowers white, fruit translucent white, prince for surrounding but not touching ripered ovary "henen"

main stems prostrate, brancher erect (in shade, in full some interely pellor

herb up & 1 m. tall, flowers purple. 124370 Minabilis jalapa one plant seen 71 Lida fallax occasional new west end of islet.

> 72 amaranthus viids one small patch seen

may 16 - Hosalsa collected Pemphis acidula and Luciana maritima on Piiraai dolet, saying they were abundany.

May 19. K. Oakley collected a specimen of artocarpus altilis in Japatan Islet. It represented the one tree. Crecords of natives visiting paptan to collect breadfruit upply to landanus, which the naval people mistook for headfruit. Cally searched for the war unable to locate it.

bushy here, flowers crimon, - closed at 11:20 G.M. plant prostrate (others seen more or less upright), flowers orange, with reddish spots - on eletale just above claw. prostrate, stems purple striate, spikes purplish.

Enwetok atol I has islet was almost completely denuded. at the outer lend a few tattered remnants of forest remain, mostly Pisonia and messerschina ig with fearvolg between In other parts there is grass and flats on which the tristry vegetation is beginning to come back. This process is interesting in that it is almost unaccompanied by succession . Of course, a few weeds gain a frothold in many places before The Messerschmidia and Scarrola, and in the grassy parta a definite vegetation develops The grass is mainly depluries and tragnostic. H. seems to retard nather than further the development of the bushy type, which in The more gradelly or welry Types of soil corner back directly. I would judge that the Promis is a later member of The vegetation, coming in in the shelter of the heaverly

and Messerschemedia. Remnants of cultivation are scattered here and there over the island, especially in the more sandy places and around buildings. Tomatoes form luxuriant vines and excellent fruits though very frew fruits were setting when we were there. kinds seemed to do fairly well, though they were more or less chilerotic and set few fruits. Ricinus rvas flourishing as a donyard plant. Mr. macmillan mentioned a good prot. Lagenaria ciceraria) which I didn't see. Most surprising of all was a small patch of Grown com. The coconuts were almost all gime. How the single bush of Plushes odorate got there is hard to guess.

marshall 1s. 24373 Digitaria prusian au militaria common locally, especially around buildings 74 Lotanum lyzopersicon small patches persiting from cultivation 75 Citrullus vulgaris small vatelier, persisting from cultivation 76 Cucurbita manma"
growing over bomb-shelter 77 Ricinus communis
planted around building 78 Cenchrus echinatus very abundant over all the island T 79 Cynodon dactylon common locally 80 Cucurbita maxima? one patch seen persisting from entiration of Morinda citrifolia rare, 2003 bushes seen 92 Vernonia cinerea common in one place 83 Lorgerum vulgare var Tochnicon persisting from cultivation 84 Eleusine inding common everywhere

to reddish treneath,

flower pont.

1946 - Marshall Is. 24385 Emphorbig chaminonis Bins 86 Fimbristylis crymosa emmen beach 37 magnostis amabiles enhous everywhere 88 Brassies seen, to probably persisting 39 floty pallar mation common locally 90 amaranthus dulales small werry mean windward side 91 Wedding Eglin of local on sandy or rodry flats. 92 Setaria vorticillata 93 fida fallax mbble prill common especially toward 94 Boerhavia diffusa common locally on mosty

1946 - marshall Is 50 24395 Leplures repons common all over rolands 96 Messerschmidia argentea common, especially Toward windward side, coderninant. 97 granda fraciola fontacione common, especially toward anter beach 98 gnettanda speciosa vecasional 99 Fleurya underalis gand. escal an on readudles 24400 Portulaca quadrifida in open ground. 01 Tuninfetta procumbens common or Pisonia grandis common toward toward outer beach 03 Tribulus cistorides L. one small patch seen in 04) pomorea pes - caprae (h.)
patil, man east passage

05 Plushea ordinata

shettened by embanliment.

11 Paspalum conjugatum

12 Conchrus

13 rust on Cencherus (24412)

May 33, 1944 - Moen 9. old village of Mechetin, winder bayof Bon. Cultivated and weedy marshy land at base of hill on flat behind a base of hill shore

14 morinda citrifolia L.

15 Columella trifolia deve march level

16 Physalis
just above march level.
in deep pregetation

17 spornoea restalus growing in pends in stanling water postrate, clinging tightly to ground, seafer erect.

stems prostrate rooting at modes, seaper erect,

at modes, seaper erect,

culms spreading from root crown, sprikes

cylindrical purplish from spots

n leaves.

shout m. tall, flowers
white.

vine climbing on other
vegetation; pamieles

flat-topped, fls. green.

stender heit, tangled
with other tolants,
flowers pale yellow with purpo conte,
stems inflated; plant

estems inflated; plant
been introduced by

fapaness, young tips
eaten.

24425 Wedelia biflora common in openings all over island.

27 Carria

28 Vigna

May 23, 1946; moen 2 slopes of Ant. Tonaachau the slopes of this mountain, and apparently of others in the island group were apparently once well wooded. native cultivation has broken down this vegetation completely. Breadfruit and Coconnits have been planted to the tops of the mountains. Patches and thickets persist,

moen I. prostrate with esting branches, rays rdisks - yellow. flower white with basal part of corna loves purple, fruit orange, sweet and of fair blava, herbage with unpleasant oder - but not strongly so. erect hero 1.5-2 m. tall, flowers yellow. faid to have been used and substitute for tea by - the Japanese duringthy war. ving with erect peduncles; flowers purple with a white straight beel. Later by natives and paparese.

especially on steel places. The Japanese cut down many of the creamity and broadfruit and Planted sweet polatoes, which are still abundant. Many open places are covered by Mincanthus japonieus. The maintrees and shrules are glochidion, Premna, acalypha, # 24439, etc. Wedelia is common. Ifromoca of # 74418 covers the hels manihot is also commonly cultivated.

30 Glochidian mon tree on sloten and ridges

32 acalypha very common on slopes
33 Stachytaysheta dichotoma
34 Scleria grassy places
35 Cyperus
36 Cyperus
36 Denis abandond
37 macananga
38 glochidion
39 glochidion
39 Commenonea bartramia (1.) Men.

Vecasional on slopes

shrub 2-3 m, talf, rather unspleasantly aromatic; flowers greenish white; fruit green, rips one, black, anall tree, wood printe, dense; flowers yellow; fruit green, reeds red.

(wood sample)

sland 2 m. tall flowers

- shrub 2 m. tall

flowers deep blue-purple

dense erect brunch

small dense tufte

steil, vine, leaves

fato, glavious beneath.

should a m. tall,

flowers yellowise.

flowers yellowise.

flowers yellowise.

flowers yellowise.

May 24, 1946 - 400 7089.

Mt. Uniboet montane rain jonest covering top third of mountain 24440 Pteris

common in shade

41 Rephrolepis common in openings

42 Glochidion occasional on slopes

43 asplenium

base of tree trunks 44 Priper

45 Cyperus along trail

46 Perselvotria common

47 Lelaginella volkemi

common on wet wells 48 Polypodium

very local on top of mountain 49 Engenia

50 Intria bigraya Cynometra one of the commoner trees in

51 Pigaer

52 acalypha common 53 acalybria common

frond not plane, young ones especially with - pinnal raised! small tree 15 m. tall bes. yellow.

vine, climbing in lover branches of tree, anomatic when broken. white.

erect.

small tree

tree 20 m. tall, 3 dm thicks 900 vine, climbing in tree, leans pale beneath 800' strub 2 m. tall. - slaminale spilses weaks show in tall justillate spike ever, styles red.

1946 - Trule Is (Carolines) fi4 24454 top of mit. 55 macarange of mt 56 Psychoting common on top of my. 58 Psychotria. on top of mit. that same as # 14456, 59 Cordyline terminalis scattered along trans co Parychotria common terrestria 62 lingives occasional top of mit. common on top of int. 2 is occasioned on serpic 65 Gercarriy herbacea common along trail is so per 66 Psycholica common on slopes 67 Pysturus

occasional in scoper

- Enhalus acordides

to the last

may 25 From the son of the the strain of the manger caught in the manner of them.

24476 Soundin alla I m.

77 Bringenera

78 Impaier

79 Hedyotis biglion server strather a em

72 1946 Trule Is. (Carolines)

24483 Denis ext top of beach, Eveally common.

34 Thespesia populnea oscasional 85 Bambusa vulgaris schrad. « Would. rave, planted.

86 Baningtonia abundant along amall streamlets or tidal channels.

37 Canavalia ensiformis (L) de

38 Polyscias tribulation gard

99 Polyscias

or hamental in yard

or hamental in yard

very abundant in marches

also from abundant in marches

Udot

24491 Stachytarpheta enllivated in gardens as anamental.

92 Lantang camara f. aculeaty cult. in yarden as a mamental.

93 Eufebrobiaheterophylla oult in garden as crnamental

94 Hernandia origera edge of beach

95 Derris common everywhere in disturbed grand.

May 25 - udof I., old mission ganden out in saddle Det. monia (molia) and manitu villages.

96 Capsicum frutescens

97 Morinda citrifolia L.

98 Citrus amantium

shrub 1 m. tall, trimmed blue violet, pla deels samb v.5 m. tall, pls. - gottes. yellow, turning pink. shoul im. tall, tratches on - Crack varying from salmon to white, said to have been red to start but getting gradually white Perhaps a difficiency. tree i mitale, leaves - buit bleshy, white aguran leaves glaveous beneath. sterile. "up" or "ub" roots prounded and used & proising fish used in quantities of a large double handful.

many cultivated species said to have been brought from Ponape by missionaries.

should im tall; fels.

greenish.

Thush 3 m. tall; flowers

white; puit eaten when

white; puit eaten when

rife and soft; napuri

Trees 7 m. tall, apprarently

bee from seab that attacks

C. aunantiifolis not faravay.

vanges nous.

76 1946 7. ruk Is. (Carollnes)
14499 annona muricata L.

May 75. Udot J., Monia (molini)
village
semi-cultivates land in village.
24500 Citrus aurantinfolis

01 Pemphis acidula top of beach on Citrus amantifolis 24500

May 27 - Fefran J. saddle bet Mt. Chukushap, bet Mesa tillage and Sanuk (above Foudjuén Village) open grassy slopes with Parpalum conjugatum, P. orbiculare, small for thicket of Premna, glochidion, acalypha, etc., with Coicos and artorarpus

03 Hibiacus tiliaceus patcher on slopes

04 acalypha common in thickets"

tree im. tale, leaves gerary.

- showers white in the seale, beary infestation.

planted Cabundantly, but numbers of there cut by gapanese who planted patches of sweet potatoes and maniby. Many of the palms had the tops broken aff or shattered, said to have been cut by the Japanese to get the cabbodge. Paspalum provider a good grick come to crit down erosion It has almost taken - over the sweet portato particles, small tree's m. talo; leaves darls green deneath; flowers clear frale yellow - with maron center " singo" shoul 2-3 m. tall manon

11 Glochidian or index or and slother, cominginapter cleaning 12 Macaranga common, coming in agree cleaning 13 Derries common or index cleaning in agree cleaning common or index cleaning in agree cleaning common one large tree seen

showers while, now; with wintergreen adar.

of. Cynometra liced with canavalia and Mersemia, & Solumella _vines. vine climbing in trees; flowers green "acherchen" large tree, sterile. were tangled in trees. - undoubtedly more than me plant represented in collection. flower non- pinh in press ! chochon" mall tree; blowers - greenish "my"

- wine, climbing in trees, darle green above; sterile, tree 10 m. tall, leaves glossy ubov. 10mmo)

Fefan 1. 1946 - Trule Is. (Carolines) mescanthus japonicus may 17 - Mesa Village, tefan 1. marsher back of black, slightly higher ground back of this, and sloper mayon, my short, erect, 74515 Blechnum rintale L 75 m. young fronds rose . brouge. cavity in with of road cut vine excepting on ground. 16 pornoca batatas L. 75 m. flowers lavender, stems along road - 1 petioles of maron. small dense tryft. leaver 17 Cyperus javanicus slightly glancous moirer ex just above edge of march creek "negamaur" nekamaur 17 I hyllanthus Arener amarus Schum. corning weed erect, 08 m tall, flowers 19 Lida hombifolia L - yellow. "siennen" common weed flowers pink noknoh (nogona) ro livera lobata L. wine, climbing over building Il Luffa cylindrica ryellow. "morenof" common weed tree 12 m. tall, leaves 22 Coelverreus oreasional in marsher ascending, flowered inflorences a acending trunks hard toward outside, firm but puthy within, covered with small incipient vots about stubs of old inflorences, leaver with shouth closed below (about 3 dm. 7 old rufts with mature "rubung" fruit below leaves Leaf sears inconspicuos. (wood specimen)

mayor sloper of my to so

24523 alreasing macrothinga small patch, cultivated on slightly moist ground. but not in wate,

> rupper steels wooded ridges and slopes, duadent mist forest, with some large trees.

24 acalypha
thisteets near erver edge
15 Horfa
hear top of mountain in open
ridge.

24 near top of mit on open ridge.
27 Process pedanculates

amount wear top of mountain

leaver up to 2 m., predunder axillary, up to a dozen in various stages on one plant, each enclosed in linear bracts, spathe bronze purple with green bast, stages with green while part of spiles yellow, middle part white, tossellate, lower part white, and white stigmas. "ki"

bush 1.3 m. tall (bossibly extreme form of \$ 7.4504),

Seaves fleshy with other wine tangled with other other wines flowers white wine with yellow plowers.

croma with yellow plowers.

croma fleshy herb
"atatagur" (b)

84 1916 Truk Is. (Carolines) 24779 Centotheca Catifolia common 79 glochidia common no devision 1. Commin 31 Pothers common near top of and 37 Havallia shaded stops near top of 33 Pittosporum rare, near top of ms. 34 alones precatoring 3) Crotin I recasional near top of mit. 36 melochia occasional in open places Macaranga occasional in frest, especially in openings 38 Hagellaria indica ockasimal in brush or brushy woods on a near ridge Top. 39 Cerld plagfilim inophyllum common in Gorest 40 Kanding carolinensis

common in frest

86 1946 7 rule Is. (Carolines)

24541 Polypeias maderial 194

42 Glochidion

common in frest

43 Canavalia microcapa cathatica

very common, especially in

openings and around edges frest

44 Fagraea betine abos. pogsal books toot.

otreasional in frest

45 Clerodendron

should 1.5 meals near lower

edge of frest

44 Fieus tinctoria

47 Vittaria
on tree trunks near lower edge of
frest.

48 Polypordium scolpendrium
on tree trunks near lower edge of food
50 Peperomia
on roclas
51 Ficus prolisa
stufnidge, open edge of frest

24592 Randia constinensis common, this one new lower 53 acopyllite

nove, lover edge of forest 54 Priper

Emmen

55 Lagending ciceraria stup of sen slope below edge of 54 Fiers

Common in freet, they are out lower edge.

small tree, flowers white

D-wholen

shub 2.5 m. tale, fl. greenish, fruit green. extensive wire with white flowers. Introduced by - Japanese. berbage footid. large banyan tree, 10 m. the, opreading, mas of trunder 2 - 3 m thrugh quite solid by anastomoris.

Parat Military Comment

May 29 - Monwin Y. w. end. Luxuriant frest of Cocos, artocarpus and other trees with dense undergrowth of tolyproduem, rephrotelpis, Wedelia and a number of Crataeva sperio

58 Cordia subcordata near beach

59 quettanda speciosa occasional, especially near beach

60 Cassytha filiformis near beach, parasilis on various

61 Terminalia Estappa near beach

67 Cucurbity pepo central in cleaning

63 Fimbristylis common var. opening man beach, common

64 Digitaria principi opening, common

65 Thuarea involuta opening, common

40 Pipturus angenteur occasional toward outer beach nomwin atoll

shrubs, laced with Pipe, edger, with canavalia.

informant af Beas (ag Kas)

strul, flowers white zygomofelico petale on enten when rife " of spruch" shoul 3 mitale cothers bight orange. "anno" whood used for outrigger browns.

should mital (others seen large trees "mosor" wood used to carve boroles

leafless wino greenish - yellow. blowers white, bruit green.

wood rised for paddles

extensive creeping vine, yellow. "pakin"

tiefts, leaves soft. puker

used as stornach medecine"

prostrate tress with tips ascending, forming a love - mat. shrub 2-3 m, tall, leaves whitish beneath, aroma und for

nomwin atol "aroma" "appolipet" showl 3 m. Call, deaves white beneath almos ext for course soon 6 m. fly. white, leaves commetion fleshy silvery green owle stems prostrate with bandles assending, fes. yellow. kunin small tree, 5 m. tall; com - narely fruiting adam of great tice 20 m. Talp, 8 dm. thick; more or less cauliflower, ingles. both on trunks, limbs and smally branches, fls. relite. Janias "fruit ealen raw. wood used faroutingger borns. selingen ann (devils ear) "lumun mi" (evenut moss) prostrate; leaves sub-fleshy, white "opuson"

"ligo". "liko" may be pronounced

24576 Callicarpa condimens in 18th 1. rare, one seen in open woods april used for booms on model canoes.

17 lacca levelopodroides common expecially in often places found mall small islands.

78 Morinda citrifolia L. common

79 quetlands specioss

80 Piper fragile very abundant

31 Wedelia biblion abundant, one of principal plants in undergrowth

32 gloshidion in undergrowth

8) Polybodium seolopendrium part of undergrowth in ground and climbing the trunks

34 Nephrolessis himtel

show is m. long, fls. purple

scape erect, leaver with 3 main divisions "mole (u) mok" starch made from tuber usually wild but sometimes planted. shrub 2-3 m. tell, fl. o fruit white " nen fruit eaten in rime of famine. suches short from tree romicale, 5 dm. thick.

climbing on tree trumbs, aturbupui aturbupui yellow. "atuat", bes.

yellow, fruit green. Tels. "efor" used for house nafters. "chi(i) chi

bred, spreading bystolong

24589 Scaevola fontesous fringing the beaches, not in from Cathadica Thomas Canavalia min fraga

beather, daniely near

97 Plumeria rubra L. cultivated ornamental

88 Hernandia vorgera. cultivated ornamental

89 Divscorea brilbifera L. occasional in frest

90 alocasia mairchiga very common both in house in the village,

91 artocarpus altilis ferming a dense frest in center of elsewhere mixed with coins.

92 annicularia breadfruit log

93 Eleusine undica (6.) gartin one plant only seen on pier 94 timbristylis Eymosa K.On var.

rare on sand spit (with 24597)

normain atoll

shout I'm m. call, rounded, spreading, flor white fruits white,

wing, climbing over trees, fly, we pink podson dead vines. "wal" leaves used for medicine for stomach. less

from flowers.

small tree sonis. later abundant, ger yellow and cream. should is no tall loans - glossy, sterile.

plante all sizes, rul D 1.5 or more ml. tall, caulescent. ta

great trees up to 25 m, tall fruit rather small

gelatinous, tough.

tufts; leaves stiff

24595 Engelorbia chamissonis Bas common very locally on sand spit.

100

90 Portulaca quadrifidat. V. Paulin only one small plant seen

47 Findristylis eymora RBr common on sand spit, (with # 24594)

98 18 Jamin hampinen water

99 Elocasia enculenta
cultivated in Trenches duy
down to water level in
forest. merkiss (Hissk.) Schott. DHN: In

24600 Cyclosperma thank one 6/1998 entlivated in trenches and mush places dry down to water level.

Of Pandanus Tectrins common on resident outer beach

or musa sapientum planted in trevelves in forest, with arvids, not abundant.

or Soulamea amara ham. evenum even broken brade

plant spreading-ascending, leaver whitely beneath, belong greenish, elightly streky, plant prostrate, leaves fleeby flower yellow, 1.5 cm. auror. leaves stiff.

shipmer and leaf bacer white.

sterile; petroles green, other plants seen with reddich

prichlines variable (leave from different plants).

prints from ground beneath.

(a much longer leafed born planted in interior, used for weaving mats.

plant about 2 m. tale, young

shouls 2-3-m. tall

forms of 7 imbristylis cymora. Englishing of and common in the intervals. Here a single plant of Portulaca quadrifida and a small stante seedling of fromven per-caprae were Tacca, dissever, and one or two sterile Morrocas are scattered over the island. the facca is used to make starch and, though usually growing wild, is occasionally deliberately planted. It was not seen on the beach. around the village and scattered townses the most conspicuous plant besides Everz, is trataeva, which is planted everywhere to Hedges are made up of a Arbisaus (rosa - sinensis as a trybud), and a sterile Polygian with finely cut leaves. Plumeis is occasional, as is a large Crinum (both a white and a ned from growing together). alocasia macrochiza is common everywhere about the village, even becoming weedy and growing in much reduced form along paths. Vandamis is verasional, but

Toward the interior a sever of exeavations have been made and filled with organic matter, forming Cystosperma intoloris serme of dre grown, with alveasing and Musa on the slightly trigher but wet ground around them. The actorageur is quite variable in leaf outline and fruit shape, size, and surface. Pelger and Elbert got names of a dozen or more varieties. I had no time to make any attempt to study them. the landamin observed growing amonely the outer beach ("24601) is a short leafed small fruited form. Inland a flandamus is commonly planted, apparent. by for mat-weaving, which, perhaps because of trabitat. is much more luxuriant and longer leafed. It was all single event stems about 1-1.5 m. Cumbita pepo was occasionally cultivated but did not appear 4 mit much.

Obviously Coess nucifera and Explosoperant artocarpus allilis are the important food plants. alocasia and Cyrtospermand laces are also important. Cralaeva, Caria, Pandanue, Eugenia, Fieres, and morinda furnish fruits that are eaten. Coloraria is a food plant, but was not Eucurbita is not abundant. Judging by the size of the Muse plants, they have not been cultivated for any length of teme yet and must be in a more a less experimental stage. It was not discovered whether y not the Divsered is eaten. Homoes Galatar way sparingly planted but deviously doe not thrive.

used for house rafters, that of artica for general construction that of Engenia for outrigger browns. What of Messerachmidia An carved bowls, diving goggles and canor connectives, that of Terminalia catalina for paddler. and that of quettarda for carried bowls. The inner bark of tiptums is used for fish lines.

landanus leaves are used for wearing mate. Coronut leaves are unef for house coverings, rough baskets, young leaves for frans and bats, etc. Canavalia and Fimbristylis are said to be used as medicines On stornach ailments. Cassytha filiformis is and to be used to line ovens. Leis are made from Canavalia flowers and Plumeria flowers are worn in the ear by young peoplets indicate that they are thinking of the appoint

The bruk andripelago is extremely varied in topography, soil and underlying rocks. It is an enormous barrier reef with a number of motus. Inside are numerous islands of all sizes. from lugh mountaintus rugged ones to small flat coral islands. On the volcanic islands parte are underlain by deeply weathered tuff, frant by hand flow lava. Some have the lower terraces of coral mobble. great talus alopes have accumulated at the foot of the basaltic the troff experially Toland Dubten. This has become weathered in most blaces.

The triff, especially has weathered into a dark red . brown sticky soil with a brigh colloidal content, as evidenced by cracking when it dries out.

The high islands were obviously once forested. now only remnants of this forest persist on the highest bealie and bigg steel softes on a few of the larger islands as Tol (best). Dublon, Fefan, moren. Important trees in this are Cynometra, Fices (tinctoria and sp. #24556), Calophyllun inophyllum, Kandia carolinensis, #24463, a ptychospermate palm. Glochidia, Macaranga, tagraea, several araliaceae, and several athers. tues. Should, as Payshoting (24456,24457), acalypha, Piptuna (24464, 24467), Clerodendron (24545), allophyllus (24553), are reasonably common. Croton (24535), Pittosporum, Psycholia (24460), etc. are none, on the ground, at least along trails.

Georardia he bacca and tentolhers latifolia are common, the latter making up much of the ground ever, along with several ferms. Viper (2 sp.), Columella (2), Ipomoea 26. (24418), Merema, and, in places, Canavalia are common me, but perhaps with the exception of the lipes and stumella may be invadera from below where the forest has been damaged. Follow (3) (24531) is occasional as a have climbing in trees. forest was not seen this ferest was not seen anywhere below about voo m. and varied in composition, but not much in aspect, from place to place. The higher portions are true montains rainfrest, with leaf epiphytes abundant. Trusk epifelyter. mostly Polypodium, Vittaria. etc. and common throughout. something similar to This may well have been the vatural vegetation from the front of the slopes up to 200 m. as infolores trighed where the forest was destroyed a damaged, the plant, that tend to come back are those common. ly found on the lower slopes. Here the natural fruit has been

completely destroyed, probably for a long time, and replaced by a friend - like cover of Coess and artocarpus, with various subsidiary shouls and small trees and a ground cover of grasses and ferns. apliamenus, Cestolleca, rephrolepis, et are common in this. Many weeds are abundant. these have been much encouraged by the cutting of considerable areas of the breadfruit and coconstilling the war by the Japanese. Pastralum distation of conjugation, and orbiculare, Emilio sonshipolia Sida acuta, ageratum anyordy and many other weeds are common. Morroca 2p. (24418), Merremia, Canavalia etc. cover large areas. In some ofren places small trakes of miseanthus japonicus are found, but not as abundant as might be expected. the aggressive secondary should be small trees takk tend to come in here one glockidion, acalypha, Macaranga, 2 sterculiaceae, mounda citrifolia etc on the openings cleared

by the fapanere every available aguas fout was planted to sweet potatoes and manihot. The natives are neglecting these, especially the sweet potatoes now and grass is taking prosession, growing very luxuriantly. Mangifera indica is scattered been and there, as are thickets of Hibisous tiliaceus shrubs and vines follow and already the japanere trails are so overgrown that they cannot be used. Evosion does not long remain a serious problem, as the growth is very heavy.

The terrace at the food of the slope is usually little above sea level. In most places it is fringed with typical mangrove swamp. with 2 op. of bruguiera. Rhizophora mucronata lonneration casholare and two other trees very common Rhizophore usually dominant, also Clerosterden and the swally dominant, also Clerosterden to

Back of this is land that is occupied by houses, door-yell cultivation such as Citrus overnut, alorasia, tread fruit, manihor

Here also are fresh or backies of Barring toning racemores of Barring toning racemores and Cytosperma are cultivated. They formore a preparate is common here, said them weintroduced by the Japanese. It is eater as greens of marsh as more in more hacked areas Pospalum vaginatum from pun stand in the along tidal channels into these marshes are thickets of Barringtonia racemore and Nife puticans.

Apontaneous trees and shouls are mangifera, morinda, Hernandia, Hibiscus tiliaceus. Therpesia Pandanus, etc. Ceiba and Casuanna appear to be plante!

forms of the common tropical cultivated glants are raised in dongards as mamental, - tibiscus, vos-sinensis, allamanda, Lantana, Polysiias (226), Euphorbia heterophylla,

Whede are the most obvious part of the vegetation - # Elensing under fusciona auffrutionsa. Unena lodata, Lida acuita, Luffa cylindrica, Cenelum echinatus

Vigna maring in places covers large areas, just below headquarters it has spread up the lowermost slopes and is covering some of the lare scars of bulldozer activity, preventing erosion.

fairly large tree, being strangled by Fieus, about 3-10 spilses at summit of branch, flowers were tangled culms frining a beary ground cover.

116 milling erolines) ed main g mt.). morent. afruit and 74019- 24669 of it cleared severt potalso Total a overgrown 114 clum bon-1expliculations?) , Lelevia sp. 1 princes sines of

Two ense (Karel.) Mkgf.

10 Randia carolinensis common in words on high ridge

common in woods on high ridge, this specimen, at least, a strangler, growing around a schepplera

occasional in woods on high ridge

13 Digitaria a upper open sloper

June 2 - slopes and main ridge of Mt. Teroken, Moral. (Chukumong Mt.)
slopes with breakfruit and covernut, much of it cleared and splanted to sweet potatos now very much overgrown by grasser - Paspaluem einjugatur and V. scrobiculatur(2) Prigatur and V. scrobiculatur(2)
Nigitaria sl. () feleria sp.,
Miseauthur japonicus
forming thickets, vines of Mersenia, etc.

25009 astronidium carolinense (Karel.) Mkgf.

- 10 Randia carolinensis common in woods on high ridge
- common in words on high ridge, this specimen, at least, a strangler, growing around a schepplera
- 12 Schefflera hamme tods on high ridge

13 Digitaria abundant on upper open slopes

patches of original frest alternating with cleared places, these on more or less level places, these opposes forest of firms, Cynametry, Shefflera, ste, quite wet, trees large.

The 8 m. tall, 2.5 dm. thick,
word rather hand, finite

pale green, sheletons of

old her persisting in while tree

should 3 m. tall; flower

white, odorless, fruits not

mature.

large tree, with a mass of

trunds; fruit pinkrish.

Jainly large tree, being strangled by Fieus, about 3-10 spilses at summit of branch, flowers white, fruit green.

tangled culms framing a beary ground cover.

118

13

June 3 - Pis), north sick of Truck Carvier Roof. flat coral island with a little slightly raised coral at west end. completely worded, mostly with Cores and Artrearpus. willy toward outer beach, sandly over most of island, large depressions filled with much in interior where Cyrtosperma is raised extensively general undergrowth of ferns and bedelia, grass no openings. 24614 Ximenia americana l'

rare, at toly of outer beach

15 Battapleway Terminalia occasional around beaches

16 Catophyttern Congres Ochrocompes adviction rare, me plant seen

17 Acaerola frutescens (Mill.) Kr. common, fringing outer and passage beaches

18 familiaritylis occasional, common in outer beach

19 Triumfitta procumbens oreasional on bearing, shaded.

20 India subendata Kam near bourses. especially inner one, Carica papaya "bijan"

bush, 1.5 m talf, rounded, wealsly string, leaves thick, yellow-green: flowers yellow within. - green without, "anno" a "ano" showl 2 m. tall, leaver leathery, flowers white

Kal Mer. should 1.5 m. Tall, sterile. "sether "manin" rounded shoul 3 m. tall. flowers white. not

> caesfutor tufts, leaves not expecially stiff. "poker"
> stems prostrate, branches
> erect; flo. yellow. "him"

tree 6 m. tall, rounded; flowers aange, fragrant. anilat

24621 Cassytha filipermis L.

common on order beach,

parasition various low plants.

22 Crinum

commonly cultivated

29 Glochidium 29 Ixora manothyra care Hamilton rare, cultivated as ornamental

25 Rhoes discolor persisting after cultivation

He Cragnostis amabilis weedy sandy places near inner beach,

27 Eleusine indica (1.) Gaerty.
weedy sandy plases near
inner beach.

of Digitaria provides we minorally places, especially mean

79 Portulaca quadrifieda common lin eveldy placer outside of firest, along road

30 Holowlames among lam. common along outer beach in

leaflers, stems yellowgreen flowers white, - Truit green. "tih" plant, m. tall, flr. while (red flowered from also grown with it). filaments purple. pedunch slightly compressed shrub 1.5 m. Tall, - bl. yellow. "the "efor" shuch 2.5° m. talo, mos. dull red, blower saarlel. under sides of leaver and tracts maron purple said to have been introduced - by paparen. Fearer Clerky, brittle. spreading tufts.

tufte.

covering ground.

prostrate, flowers yellow.

root enlarged flant
fleshy leaves in flat
masses. "chinkis"
shrubs 2 m. tell, plowere
whitish, fruit green.
"maras"

large beds in shallow water on Gringing rolf in Ragion allmost exposed at low tide. 33 Polyscias analytica volla shade, sefrecially in e ge of frest.

34 Momoren alba L. edge of frest men outer in 35 Oplismenus compositus common in Govert, carpeting grund

Il Morroeg districtes 131 occasional in woods 37 Divocorea bulbifera

common in woods

38 actingranther aspera rate in woods along trail 39 Hymenocallis litteralis rais in small cleaning

40 Paspalum conjugatum common along trails and in slight openings in words

Pist. small tree 4 m. tall, very lactiferous; flowers, fragrant, cream and yellow. succeedent, Thisyers white, leaves muchamuch" or "anot" with celery odn when broken shrubs less than 2 m. tall, fruiting when less than I m inflorencence wind climbing over shrules "afamach" prostrate to ascending. Love rule or "ruge" sterily wing vine climbing on showly and trees, steril, tubers eaten by natives, "apuneha". "nihöhe" flowers white, predunde compressed, with sharls - edger "sip" by runners, greading by runners, forming a dense growth.

Pis I.

24641 Wedelia Diflora
one of dominants in undergrowth
42 artocarpus altilis
about dwellings

in marsher on the landward side of the word on to presage beach.

44 asplenium midus, race

45 Premna straighter in the land wellings 46 Elevaldendlin small marchy places

47 Fleurya on chal boulder and along

48 quettarda speciosa along bearles

49 Dryoftering goggilodius much soil in Cystothering frately

50 Nicotians tabacum in cultivated around dwellings, a few plants at a time

51 Polypous Janguinens L. 4, F.

52 Shipophyllum commune Fr.

erect herb 1 m. tall, fruit

flowers yellow "atnot"

thee 10 m. tall, fruit

immature, seed bearing.

vainty "mai" "oneas"

calys green, petal, dull

orange.

mall plants, not

mall plants, not

small plants, not "muk"
especially thriving "muk"
shoul 4 m. talp "umuhau"
seranfling shoul,
borning low thicket,
borning low thicket,
apried "apried"

stems red, flerly, petiole, and cyreer red "ansigitum"

shub i m. tel "mosor"
all plants examined was
sterile. "amore".

beck I m. tale, flowers

"seringen ans" color dull white 54 Pittosporum

spaningly cultivated around houses, said to have come from Pist, not from higher islands.

55 Messerschmidia argentea common along outer and passage beacher

56 Hernandia pettets ovigerant beach

57 Vigna maring common near beaches

58 Hedystis biflera common in disturbed places

59 Lepturus repens (70 st.) orcasional near outer

60 Denis trifoliata common in edge of fruit and around evoded coral brulders near for west beach

61 Frans tinctrine occasional in frest 62 Callicargea west and of forest at Pis 9.

should 2-3 m. tall, sterily orpuch small shoul 1.5 m. Tall. more back with an oily aromatic odes, said to be used - to rub on hair. "arranges" small tree, leaves fleshy, silvery green, flowers white, _smewhat fragrant. "chen" small sterile bush 2 m. - fleshy. "akmang" prostrate, carpeting ground, peduncles ered, flowers yellow, - Reel straight "nomba" prostrate: leaves sub-flesley, pale beneath; flowers white tube swollen lobes divergent "sing" spreading by runners

leathery leafed vin, teaves glossy, darls green, unifoliate and tripolisate on same plant. shoul 2 m. tall, sterile "auan" shrub 2 m tall "kotu"

"seringen amu"

. moen I.

glows in darkness with a strong green light.

Tree size. Leaevola, Lepturus, Messerselmidia, etc. are only found on the extreme edges, at the top of the beach, especially on the outer beach, which has a stry of terror Messerschmidia, Pandanus, houlance, etc. fringed with Leaevola. Ipomoca alba is prometras Viter of Canantis, Here found sparingly here, also Canavalia, Vigna maning covers some of the opener land. with Triumfetta, Cassytha, Thouaren, etc. "uniful som ford plants are Cours autocargues, Cyrtospenna, with Musa. Crataeva, Vandanus, Ipornoca batatas

Tobacco is spaningly cultivated.

Onamentals and Crimism

(a forms - white & red), prymans:
callis, bolyscian sp. (Rumenia;
Genplinena globosa, Mirabilis;
lete.

Thees around the village are Circlia undervidata, Theoperia, Hernandia, Terminalia ap. Aittorpromen, Corres, Enteragen

mangrove formation is evidenced by a few hlairsophers and truguing trees.

The relatively richer flora
of Pis than normwin may
well be a reflection of the
reamers of high islands.
Credyline, Oplinsmenus Phipplons
Brugnies, Pryopteris, Psilotums
Derris, Vigna, Maniswis, etc.
and many weeds may be
evidence of this. Both natural
means and frequency of
luman transportation are
forbably involved in this.

moen D. Blats near Baker Dock broad flat of somewhat : raised coral gravel. Openings weedy, with Eleusine, several Eughrobias, Digitaria Paskalum conjugatum, I fromore, Piper, 7 imblistylis, fido acuta, etc.

mangrove swamp occupies a portion of this, mostly Rhizophon but uniderable senneration. Leavola, Lumnitzera, allophyllus,

One part has large actorarpus 24692 pomored litterate Al

very common on sandy flate and at edge of mangrove swamp

93 Timbristylis mangrove swamp

accasional a coral That

95 Carica traspaya feat

with venez - Pyer, Upomore, Wedelia (!) climbing up 2 H. Glochidion, etc.

lacca is occasional. Cypeus of, large grase,

herbaceous vine, on ground and climbing over bushes, flowers still open at 10 am. bright rose - purple, despen in center. exerpitors, leaves only somewhat stiff.

small tree, fruit with base of style enlarged, - darli green; flo, gallow. single stem with crown of large leaves, flowers white, this tree male, Fruits 5 cm diam spherical,

1111 1946 Trule In (Carolines)
W1708 Barringtonio asiatico (
og allophyllus
edges of mangrove swamp
14 Frens tinetonia Front
edges of mangrove swamp

June 8, 1942 - Mt. Lasso, n. central Timan 9. remnants of old firest persisting on dissected coral limestone around house 24711 (almosphyllum mariannene epipelytic on cynometra trees. 12 Eynometra ramifinal.

13 Pipturus argenteur

June 9, 1944 - Palm Beach", west central exact of Timas I. near top of timestone sea cliffe 14 Hedyslis fretida vas, mariannessi rock ledges

* 15 Phyllanthus marian

Lesbania cannobera

June 8, - Lalse Hagorya, northern and of Timian). abandoned cultivated at the ground 16 amaranthu viidis hand trampled ground

stuck flat to bank, fruit green, pedund Thick. Tree 3 m. tall willy buttressed trunk 3 day - tails green. small tree 3 m. tall, righe brint white, bleaky. beaver relatively smooth above.

sub-showle up to 1 m. tal, with foctid who when broken flowers white world - funnelfam lotes erect. show to 6 0.7 dm. tale. teaves sensitive, whole branchets of them closing referentien fort in press.

prostrate somewhat sensitive, flower yellow.

145

June 3, - Camp Churd, inear center of Tinian ?. 160 m. wadsides and cultivated ground.

24725 . rust on Euphorbia prostrata

26 Baulinia monandia cultivated ornamental

1 27 Cassing glanes and cultivated anamental

" 28 Zoysia matrella timili. Ti.

1 29 amaranthus vivis near buildings, vecasional

30 amaranthus aprinosus near buildings, common

June 9 near Marpo Wells, Tinian I. abandoned cultivated land, in and around large sints- hole.

* 31 Fieres montes ran

deep grantes backy in bottom

- 37 Danis elliptica around bases of trees in sink bole. sportrate host to grow erect.

should a m. tall; flower print, lower pretal conspicuously sportly with red.

amall tree 3 m. tall, clave, leaves seightly glaviery, forming a dense soft carpet, not pungent.

erestition, branching erect herb im. talp, stem bleshy, branching.

- rounded top figs green.

sterile woody vine; leaves glancour bereatly.

June 3-13. (inian Island is composed of a series of elevated terraces of reef limestone, representing at least 4 levels of elevation. separated by lines of cliffes. The burgaces of these terraces or benches and covered by soils varying in color land thickness from level to level. Ferre faulting has obviously taken place, resulting in slightly tilted techair and several apparent levels that probably do not represent still- stands in the bristory of the elevation of the island. There are several large limestone sinks, so old as to be now merely small walley with no oritside drainage. One has a amall late. There is at least one small trasalt etone, at marps or Carolina Ridge. This is no arrall that it probably has no influence on the regulation. The edges of the tenaces above the sea cliffer and bluffs in many places have lost their oil, or

never had any, and are bare, rough, usually more or less dissected coral limestone. There are bew beaches of any size on the island. on the terraces, except where there are outeroppings of dissected limestone. The Japanese placed every squer meter of land with enough soil into sugar, and napie grass and the sweet potatoes. Kater the U.S. agencies farmed some of this land fruite intensively, Now it has been abandoned for periods of infrared of 7 /2 months. a vigorous weed vegetation has cleveloped, so much re that it is hard to believe That such a short period has classed since the land was interserely cultivated. The most obvious and generally distributed plants are Paspalum conjugation, two stood kida, malvastrum of caromandelia notalary saltiana. Enghoring Hinty (a very coarse and luxuriant form) c. Thymifolia and another prostrate ap. (eta. 11. 192)

24745 Phyllanthus Jovenings common in openings 46 Cappairs condata condition in rare on edge of cliff

47 Psychotria mariannensis

1 48 Canthium od stumon Vinsanens

1 49 Fimbristylis aymora var.

v 50 Biblia on binds of eliff

v 51 Bilelia

52 Bikkig

· 53 gossypium huntur L.

54 Canthium sdoratum san. in-in-a

v 35 annova squamora

of Canthium odoratum va. timina

shoul up to 0.6 m. tall.

leaves blue green low branched sub-showler, one withered flower, brids with one with one side gibbous.

- side gibbous.

- should 1.5 m. tall, leaves stiff, stipules not calyptiate, flowers while, fruit red when rips.

- should, in tall, flowhite, fruit betoning black white, think of diff.

- caespitose on ledges at brink of cliff.

- small should one m. tall, flowhite, white.

same

rano

should 1-1,5° m. tall, flo.

cream, turning rose; puit

from different plant.

should 1 m. tall

should 1 m. tall

should 1 m. tall

immature

immature

June 9 Tinian City Tinian small patch of woods on dissected coral on terrace 24757 Psychotia maianana.

i 58 Fieus : 1 mis

v 59 Ficus tinctorius

60 Canthium

41 Callicarpa

62

154

tommon &.

63 Decrangia imaranthoides

4 64 Cassythy filiformis L. common, parasitis on various plants 4 65 Passiflorg factide var. hispide (Me) Hilly

common everywhere

166 folyalthia jorna

- 67 albizzia West

should amitall, fls. - while ripe fruit red. open tree i m. kall print printisel with banyar type with arial root, should a mitall lather as large as trees, fruit - gellow to orange: erect shrul 2 m. tall, - Truit green. low struly, Im. long, buds pupple, reper fruit - turning purple. small tree, stigmas delp purple. men, shilves pendent leafters, sterns green, flowers white; right

flowers white; rife,

- fruit white, fleshy.

vine, climbing over

shrubs; fruit dange,

bracts deciduous when

- fruit is rife.

tree is mitall; leaves this;

- tree 8 m. tale.

1.56

69 Experies

Common very locally on dissected limestone

71 Hedyotis albidopunitata (Men.) Food dissected coral limestone

72 Finbristylia crymosa R.Br. coral limestone

73 Hedyotis foetidusvas maiannensi coral limestone, common

74 feaevola frutescens (Mill.) Kr. esmmon

June 9 Near Marps Wells, Timian? around buildings in abandoned cultivated ground. 75 Brechavis diffuse accasional

176 Desmodium triflorum carpeting ground, widesprend on island.

should 1-1.5 m. tall, lower leaves green, upper deep purple, glandular hairs purple, green typed; flowers tricks red; puit - green. tuft, spikes brown low bushes up to 1 m. lale teaves astringent when _ chewed, plowers white. leaves fleshy, paler - beneath; flo white, caespitos, leaves stiff. plants ascending, up to 5 dm., leaves thathery, _ todo white, few. should 1-2 m. tall, flowers white; fruit while, plestry when rife.

prostrate from a heavy to in. long hanched leave, white beneath, not fleshy.

prostrate: ges. purple.

Section and the second of the second contract of the second contract

June 9 - Ant. Lasso, Times 9. Sussected timestore outers. Analy tangled fruit.

24777 moninda citrifolia h.

que 18 Melanolepis multiglandulorg que 18 common, wideifried on roland

79 Lida common all over island this plant sheltered.

30 fida common in abandoned fields all over island (same as 24779)

31 Lida and in orbandoned fields all over island.

June 10 - Lake Hagorya, muth and of Tinian . strand vegetation on dissected coral, mainly therperia, excreasing, Penyle. Messerselymidia etc. with I pomoca percaptor on sand and Hedyotis in rocks crevises and cavities 32 Messerselymidia argentes (1) Johnst

8 9 183 Excrecaning agallocha commonest tree on dissected coral

- should tree 3 m. tall, leaves - aviall tree 3 m. tall, - bush 1 m. tall, leaves darkgreen above, gray beneally rounded gray bush 1 m. tall.

branching and leaf amange. ment distichous, who light green.

leaves plestry, silvery green, flowers white, fruit pate - green, plestry!

- mall lactifer our tree

4 m. tall.

Control of the second of the s

160

24789 Fimbristylis cymoser & Br.

disserted coral 86 Therpesia populnea

187 Digitaria marianmensis

occusional in sandy prelists 88 Hedyotis albido-punctata (Men.) tosh. rock and prochets

+ 89 Homes There is time (1) ter places, common

90 Vitex common back from shore

cultivates an wall around ceretary

92 Engratis wered in cultivaled ground

9 Delonix regia planted around settlements

94 antigenen leftofpus 95 planted around buildings

196 Eragnostes amabilist.

97 Spornoca everywhere

weed around buildings

Timan

caesfritore, leaves not shall tree, flowers - pale yellow rather stiff trefts. - spike, appressed. reumbent to accending, leave fleshy, pale beneath, flower white, tube & enlarged, throat constricted, lobes _divergent.

extensing very prostrato -anground. shoul 2 -3 m. tall. - fels purpolists. slander vin, flowers scorlet.

- Vendeny see my

great - topped tree 6 m. tall, flo acarlet, enver petal at just pinh with red sports, turning reddich. vine, blower bright - was pines. ever, spreading

prostrate, creefing in ground, fls. perfele, closing al about 18:38 a.m.

1946 Marianas 9s. 162 24798 Chloris inflata common along roadsides 1 99 Dactyloctenium acrypt common everywhere Inphobia common everywhere 101 Emphorbia hinta abundary everywhere I or cuphorbia prostrata v 03 Phyllanthus kirus abundant everywhere. V 04 Boerhavia diffrance repens ermmon 05 Bamboon Humerena Schrift f. det F.A. M. line planted

I DC Bambasa selver selver while up (1) 11 how yelanted

or alpinia speciosa

108 Carried papaya & commoneverywhere June 10 Marps Valley, near marps Wells, 7 inion Island limestone stope, abandoned nehard

44809 Terminalis catappa L.

1 10 Polyalthia grand growth the

1 12 Horas a peruling wenticosa common climbing went trees

July of Met fasty touring.

July of Met affasty touring.

June 10 lang Churo,

Timian J.

Timian J.

To Digitaria ulianis

Then ground

14 Cosmos rulphon sulphoneus.

open ground

open ground, large colony

spreading trap 8 m. tall,
flowery white, fruit

- thick, bicarinate

small trae 4 m. tall,
- leaves thin, dark green,
- fruits green

should a m. tall, prints
- dark green to black.

great herbaceous vine

many meters long,
almost completely
covering trees.

glaverus here, flowers leder very blue glaverus, bairs ange ange flowers intense orange fright yellow leder white along vein

June 11 - Marpo Valley, Tinian !. 24316 I pomoca attest planted about old house site

Marianas 9s.

solid stand on terrace of deep black soil 118 cappairs condata contra common on mall makatea outerops

June 11 - Terrace above ocean Island grass-covered terrace of deep black soil with orderfront disserted evol a malactea, tolor and front eveathers tulus slopes at foot Jof slopes with low brush 19 Portulacy oleracea Estat in disturbed places and along want on tenace vo Vernonia cenerea distribed places

showl I mitally stems branched principally at base, not inflated - flowers tavender. sterile, slightly gray-green.

low suffrutescent herb, somewhat Leandent, leaver glancous; flowers willed at 11 a.m. (raid to have been at 9:00 am.) fleshy, white; buds with strongly gibbous my lower sepal; immature fruit with satrong ribs. stips recurred.

Protesting . of Therpesia, Myofroum, chrosing and several other strules, with Corrytha; Vikhing around aliffer and limestone outerofos

fleshy, fls, yellow, about erect, Glo. purplish.

24835 Biletria common on and about foot of limestone eliffs

36 Helistropium anomalum H. G.

- 37 Emilia sondrifolia common generally

- 38 Bikkia common on and shout first of limestone cliffs.

39 common on slopes

40 Portulaca grandsifieda

vane on slopes

41 Mysporum boyayere Kocióz

very common on slopes

- 42 Joysia matrella common on slopes, in places forming a carpet. - 43 Leptures refrees common anslopes thick, leathery, glossy, flowers white almost adorlers mangin of corolla revolute in age.

Leaves fleshy, perwere white with yellow tube. honey like oder.

flowers pumple.

should 1- 3 m tall, leave, Unch, leathery, glossy; flowers white, almost odnen, margen of corolla revolute in age prostrate in exposed places, a low shrub in sheltered places, flower, - yellow. prostrate, plant fleshy, leaver - somewhat compressed. prostrate in exposed places, low show when shelted, flower white with honeylike oder, fruit deefs magenta - pruple when - ripe, not angled. not pungent.

small togts.

The Professional State of the Control of the Contro

24344 Hedystis albidopunctatas (men.) Fod.

V 45 Oxalis corniculata var. repens

fune 11 Mayor Valley 7 inian 9.
abandoned cultivated land.
46 Cassia orcidentalis
one of commonest plants

47 folanisia isotandra very abundant

45 Cyanotus

+ 47 Physalis lamifela Nes

fune 11 west side of Island
"Palm Beach" Times. I.
cliffes of limestone, covered with
small-treer, at bottom talus
covered by Parringtonia asiatica.
moist.

v 50 Tacca lemtoprodivides L. amall colony in shade on talus v 51 Dioseven brillipera L.

rome on talus in shade

prostrate, stems red.

leaves fleshy; flowers

white strongly divergent,

narrowly oblong, throat

closed with hair immature

fruitefleshy. cirolla tube

fruitefleshy at middle.

prostrate, plowers yellow.

herb 1.5 m. tall, flowers
yellow fapaners were
said to have used seed,
as a offer substitute.

her with rank oder,
yellow flowers.

glowers lavende,
periantly tube long petale
periantly tube long petale
tall, flowers pale yellow
tall, flowers pale yellow

bading to Beaevola out on point then to open Zoisia feat, then to bare disserted limestone.

sterile

24852 Barringtonia asiatica talus at base of cliffs, dominant

shade on talus at fort of cliffs
54 asplemium
on cliffs

+ 55 Condia zubzindata common en cliffes

- 57 Premma obtustolia A. B. (ponter lus) common in brush at top of cliff

common in brush at top diff

of eliff on proint. (Mill) Ks.

59 Leverola fruteriens (Mill) Ks.

common, especially away from

point

40 Callicarpa in edge of trush

161 Boerhaavia diffung repens 162 Helistropium a grassy flat common on bare dissected Timian

large tree 12 m. tall.

flowers white stamens

pinh distally.

fronds event.

trees 5 m. tall (flowers un young sprout), flowers brilliant deef orange. - triffit

fourth immating.

low rounded bush 1 m Tall
(getting lower toward point)
flowers fruit white, fleshy.

flowers furfle, rife
flowers furfle, rife
fruit deep purple
prostrate, reddish,

flo pinh, leaves thin

for white will yellow sente,
honey odn, (mly ine brind-duply lobel,
noted)

marianas 1. 174 1946 24874 Heliotrofpium andrew V. weed around house 1 75 Cyperus byllinga weed around house · 76 Kicinus communis eult, as ornamental 17 Cynoden dastylon (L.) around house well scattered over island 178 Catharanthus roseris J. G. Dom in garden, but escaped and well distributed over reland. 199 Echinochlog Cotonum weed near house 80 Paspalum conjugatum some fell cultivated ground, wastabundant want musland. 81 Ferraena glacia leurocaphala very common in abandoned 82 Urena lobata L. occasional in abandoned tark 33 Lida condifiction rare, in enoded place - 84 Vigna manna eloded land, widespread in what 85 Crotalaria saltiana manto Pin. very common in abandoned land 86 strongylvden edge of cliff

1946 - Marianas 1s. 182 June 12 - Officer Beach, e. side Timan . · sandy beach surrounded by coral limestone bluffs sand evered by Mometia prescapras, Triumfetta etc. bereffes with temphis wit a few other shrules , Hedyotis 2490 malvastrum coomandelianus roadside, one of principal weeds in abandoned fields. of amaranthus vides wadside weed, common or Elevino indieg one of commonent weeds on island, radicely v 0) Hibiran tiliaceus L. in freit back of eliff , arman of Cenchrus echinatus common roadside weed, 05 Thornoes alla L. very abundant in forest believed bluffs - 06 Thuanea involuta or rand back of beach on limestone bluffs, esoposed - 08 Hedyotis albidopunctata (men.) Food limestone buffs

serangely woods attended the covered by person allow and Passiflore footing

prostrate

spreading tuft.

small tree 4 m. tall,
leaves very clark above,

white beneath.

spreading tufts.

great vine almost smothering Trees. prostrate, forming a look mat. - fluit very young prostrate, blams red. flowers white. Leaves fleshy 24909 I formore fres-capias

10 7 immfetta procumber

+ 11 Wedelia buflory on could

12 Fiers face of bluff 13 Heliotropium anomalum H. va. sand at foot of bluffs not common. (with 23914)

14 (Heliotrogium anomalum H. + a.

15 common along trail in brush

11 feaevola futereen (mill.) Kr. var?

June 13 Morth air Field,
Tinian I. coral glat becoming
very rough toward the sea
cortered by large gratcher
of Verbesing, Pemphis,
Heliotropium anomalum,

extensive prostrate very, rooting in sand, flower bright purple. .. extensive erespring -prostrute transhed wing. prostrate, extensive, flowers on assending branches, yellow. leaves gleshy. should 1.5' my tall. - fruit immature. prostrate to ascending, en. flesly; flowers yellow with white estres, slight honey ocher. prostrate to ascending, leaves fleshy; flowers white with yellow center, strong hone, order. stem prostrate, branches ascending, corollas -lavender, fallingvery guidely small shrub (others larges) flowers with central third of late frugale, fruit immature.

etc. with Hedyotisalordopund. ata between, myoponum. here and there

186 1946 mananas 1.

24917 Heliotropium anomalum H. a. rough coral, forming almost pure stands of many square meters each.

1 18 Cappanis: Myna on raised blocks on weigh

v 19 Hedyolis albidopunctata in consolicavities in rough coral

» 70 Portulaca oberacea common along disturbed

121 Interior of words.

Total coral bluff bracks of field freaches insularis (1) 11/2 roadside west of air field

plant fleshy, prostrate to assending, flowers white with strong yellow center, honey scented, scarely - or not dimorphic. subscandent struly, leaves of bleshy, somewhat glaussus, minutely viscid glandular but not pubeacent; at 8.30 a.m. some flowers wilted, those in strade still open, obviously a night - flowing operies, flowers cream grantiale to assending. leaves fleshy; plowers white loves pratery, elliptin-ovate. plant geestry; flowers yellow, 1 cm. across, stamens about 20, Als closing at about 11 am. tree 9 m. talo, lastiferous; leaves thirty arachroid serice aus beneath.

1946 Marianas 15. June 13 Broadway, s.w. of Yellow Beach aband cultivated land 24923 Clitorea ternatea covering solid patches in faceld near road. v 24 annona municata was side tree 1 75 artocarpus altilis tree around old home - site The Cucurbita persisting after cultivation 127 Mierus around ald house site 127 fuffa wentangula persisting after cultivation 199 acalypha willresiana wadside anamental 130 Cajanus cajan Be the first of the ledge near foot of 132 l'ipturus argenteus gost of limestone eliff, common in prest

1911 1946 Marianas 20

fune 13. Mt. Lasso, Tinian).
around old shrine grounds,
now abandoned
14933 Canna
planted ornamental
y 34 Lansevieria tripuorita
planted ornamental

135 Clarodender Thompsonae planted ornamental

Afforita karefrend John J.

36 leiba pentandra roadride tree

June 13 Camp Churs, Tinian I. Statos abandoned cultivated region 37 Crex lachryma - jortri roadside reced

(38 Bougainvilles spectabilis plantes as armamental

V. 39 Longhum rolgine persisting after cultivation herb- 1.5 m. talf, flowers
brilliant scarlet fuit
maron, tuberculate
leaves exact, gray and
green mottbad, the
form with white
edges growing meanly.
behies orange red
vino, caly, white,
corolla deef Blood-red

tree 8 m. tall, the frances to talk straight trunk, wishely spraid; puit pendent.

fruit lead black when young, then pearly gray. scandont abrul, brasts magenta, glowers white.

marianas b. 1946 192 Euphorbia betrophylla (not 11 so common), asclepias curassaving (not so common), Cleusing indica, N Portulaca oberacea, Cenchrus or extrinata, amaranthus (i spirosa, a. sp. (ben common) Eyperus stuppeur Cassia Commence (less commen), Phyllanthu Dactyloctenium 2/2, Cragnistis amabilis (less common).

Marie local are Ipomoea india (2)

Ipomoea 1/2. (2017) Clitarea ternatea, Tricachne insularis (rare), Celinochlog colonium, Catharanthus roseus, Cypenes byllings, Urena lobala, Trumfetta semitriloba (Hozaka coll.) Physalis of. Polanisia revealed (aboundant in Margo area, important

Engineering, Chloris inflata, Engineering, (14750) accompromene indica, Where the land tras been abandoned longer brushy patelles, are appearing, with Jatropha grayfrifolia, Leucaena glanca,

bost for insect perts), Oxales,

Chrysopogon acculatus, argemone

Psidium guajava, Indigofera suffrutivosa, Passiflora froctida, Canca papaya, Lida sp. (24775,70) movinda citrifolia, annona equanda Thereplaces are usually smothered by passiflora foctida and southing sponoce (24312) Tinian

Old house sites may be detected by small groups of artocarpus, Musa, Fieux, Terminalia catappa, annova muricata, Morus (ras), etc. Nicotiana tabacum.
Vigna marina and Ipomora per-caprae from occasional patches inland especially where the Rop-soil has been

patches inland especially where the top bull-dozens or removed by bull-dozens or environ. They are, of course, common in the coast.
The Japanese, after they had completely destroyed the natural forest vegetation, found the wind detrimental to their agricultural extinities on the bard plateaus that remained. To correct this extensive wind-breaks

of Casuarina equisatifolia and acacia confusa were planted. These remain. In the broad strips of acacia there is absolutely no

henre grasses a mosses. Idid not examine a similar

planting of lasmanina.

Beeba pentandra was planted along some of

the roads.

In the fields, persisting from cultivation are great quantities of Laceharum and Pennisetum propureum Little traces of year, Kaphanus, Kachuca, Chino Krasing (Chinase Calbage), Encumis sativa, C. melo, Cajanus cajan, Loglum vulgare remain, other than a few scattered plants, cuculità pelo, tagenaria ciceraria, A Luffa atulangula, Milita Cosmos sulphurea (?), Celliaranthus rosea and The U.S. CC. papaya patch is still in good strape and produces quantities of fine "solo" thut. also papayas are sportaneous alforth the island. a citime grove of sour ranges and limes planted by the japanere les in the Voilly but has now great up somewhat to other trees. Common greants cultivated around camps, etc. are treuderanthemum eldorado, t. atropurpmeum, graptoflyllow

pretum, Catharanthus

reseus, Pelonix regia, Carrie Glanca, Bankrinia menandra, acalytela willsesianu, Codiaerum vulgare, Polyscias fruticora to grilfoyler, Canna hybrida, anna muricata, artolaspur altilis, Terminalia catafepa, Calophyllum inophyllum, zephyranthes rosea, Clerodendia thompsonae, Ricenus communes, pomoer erecta alpinia speciosa (rare), 2 sq. of Cambros (rae), antigonon leptopus (rase), Ifromorea quamoclit, anna muricata, Joysia matrella, etc. most of these were doubtless Everight by the Japanese and some of the very specimens now cultivated were greanted by them, as their size atteste. Comuls are none. The septement levels are segranated by escarpmente a nows of limestone bluffs which are covered by a thick frest excepting or some too-abrulat places. where there is no friend a. sparel why growth of Bilelia, Toppeson Prychoting marianners etc. is found. This is naually

not far from the orelan. The first is of Ochrona sto. Cerbera of Sychotria What whosa Pismis a multigland-What about in 3 2/2. of 7 in Pysturus argenteur, guarnia of which residence of the same coll.), moin aglaia (Hosaka coll.), Mounda colline or whing a matica, a variable propulation of Canthium, Polypeias (14921 2000), 2 rare unide (14971, 24931), tangled with Electronic) a morning Hornoea (24812), alrus precatorius, Vrucuna gigantea, strongyloda, Variflora fretida, etc. there is little or no runder growth in There friests except where disturband has taken place. a somewhat similar front appears on outeroppings of Campbe Frenz see al en the flat lands. tiens years to be in one common bere alliggia spis common, possibly naturaged. The original regetation of the terraces may have been similar to this, but probably

weber in species.

On the terraces travail and expecially toward the out to bothing. Before it are thinned to notthing a surrowhet similar front decurs, but with the addition of Janenna of Wilstremiay. and will fremme more commen. Iting adually reduced to brush where the soil becomes too thin. The brush has many of the same specie as the Court Venna, Ochrosia. rugeria, Canthium, Psychotria, Colubring, anny Callingpa, ete. added are Bilshig mariamening Phyllanthur sp., Capparis, cordata, Carrin Mp., and, at low altitudes, fearvola Earnythia frutescens and Pemphis Madelacia acidula, unident. bush (24829), Hilmsen Cil. myopenem, etc. Polypodium exolopendium On the high cliffs on the west side a better development of fruit exists, especially on the talus at the brase, where Barringtonia asiatica is dominant, with some Pandanus. Here the soil is

mount and ferns, Tacea,

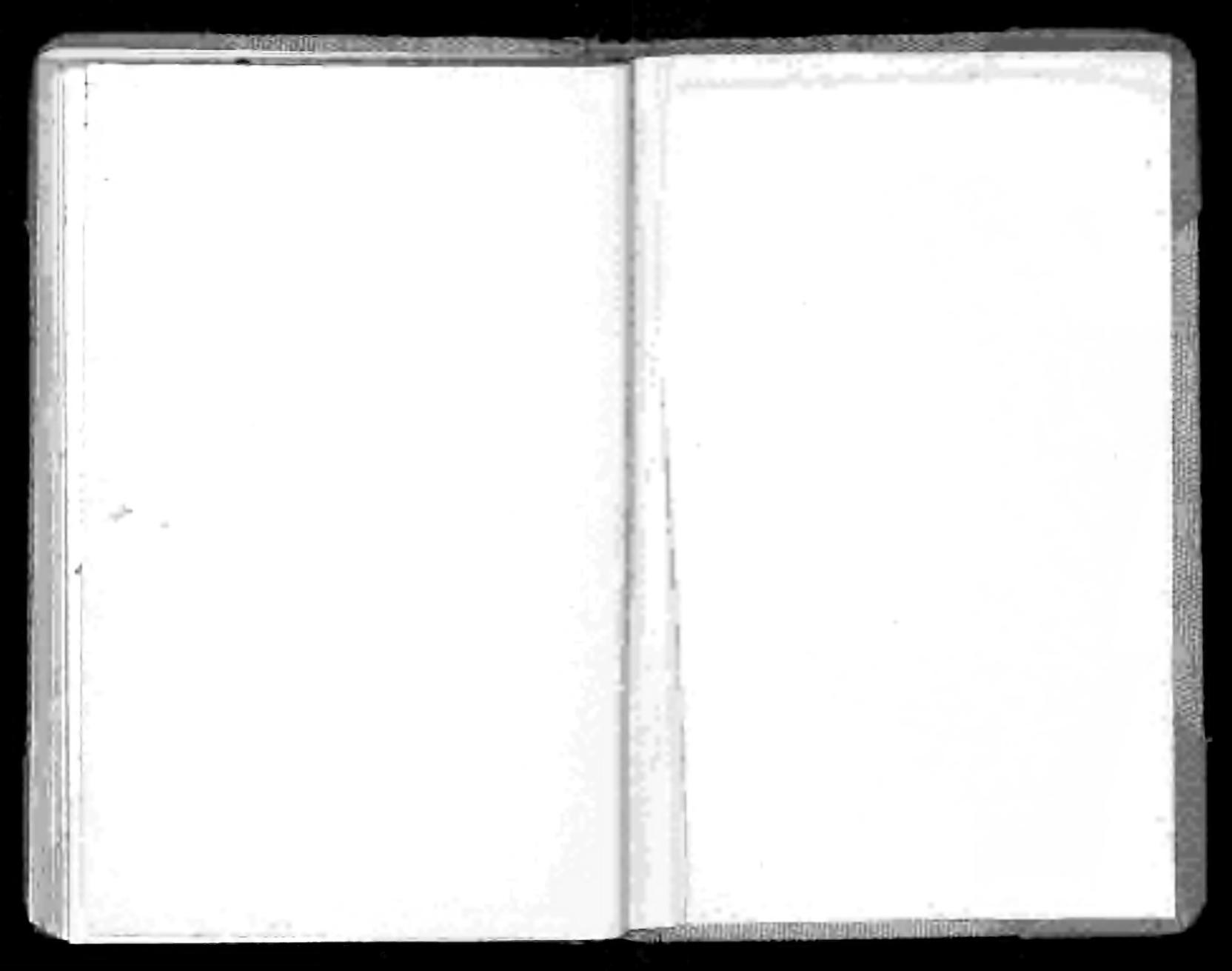
Diosenea, etc. growing the shade.

On the cliffer, Cordia subcordeta is very important. asplenium Votypodium scofrarium, Hedyotis Coetidus var marianneman, and Digitaria mariannensis, are found on and hyllanthy of are found commonly. On windsweft headland at an extreme strand vegetation to found. this is on Eval rock usually quite dissected and with ! "little sort. Inward there is a belt of scaevola, Coffan Callicarpa, etc becoming lower and giving place to abundant myoporum, Heliobropium argenteum, zapia matrella (common, farming carpete), Vicia, Aida sp. (24864), Hedyotis albidopunctata. Evolvulus sq. The relative abundance and distribution of these varie from place to place. at low altitudes Pemphis acidula enter, the fricture, often as a dominant over large plots also Terminalia catappa, Wedelia biflua. Excoccaria (?), Messerschmidia argentea, Therpesia propulnea, etc. On a terrace of on the s. e. side there is deep black soil almicompletely covered by dense

growth of a grass that may be sporobolis virginiaus (24814) with a dense patch of a reed (24821), patches of Heteropogon contestus, achypanthes, occasional Vernoving Eineren, Portulara tester oteracea, Chrysopogin, Cyprems 2 sp., at ele. above on weathered talus slopes this gives way to the brush described on 1.197 with mysponen, tolypodium, Eugenia, Canthium and 24827 important, and added "24737. Wedelia, abutilon, allophylles. achyranthes, etc. toward the sea cliffer at the n. e. end, very prostrate Hyppun 34839, Hed albidof. Zorysia, Leptimus repress and Exalis corniculates dominate the see ovegetation. Forward the vot of the cliffer elsewhere are occasional or teropping of disselled and will Capparis principally. The deep soil of the terrace was cultivated in sweet protatoes by the japanese. On the few beaches Spernoea per-caprae, Wedelig biflore, Vigna marina, trumfetta sweembens, Digitaria mariannessi,

Museuschmidia angentea, Acaevola fruterius, etc. are important. The negetation of the island may be beefly summarized as a strang regetation, becoming mine extreme in exposed folaces meanths occan and seconing more luxuriant and mesotohytic incand and in sheltered places. It has been yeally aftered by man, especially on flat. tillable ground! June 9 - Mt Lasso, Timian). around buildings on notting wood

on notting word





OCOCCASOCACA AND THE PROPERTY OF THE PROPERTY